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KNOWN ALL OVER THE WORLD. IN GREAT DEMAND EVERYWHERE.

FOR TRADE OPINIONS ON OUR CASES SEE BELOW.

OUR £5 Handsome and Attractive CASE (OPEN BACK OR FRONT)

This handsome Case stands unrivalled for style, convenience, and beauty, and is fitted complete with Tinctures and Pilules (to customers' own selection if required) to the Net value of £5, thus yielding a handsome profit without trouble or inconvenience.

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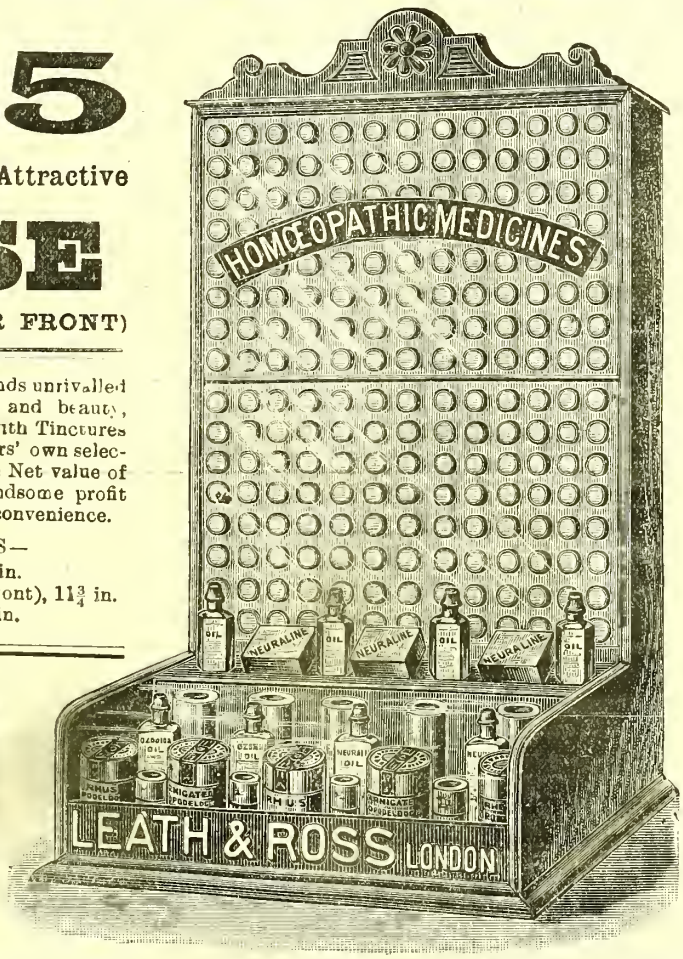
NO CHARGE Whatever for **THE CASE**



OUR **TINCTURES, PILULES,** AND **CAMPHOR**

Are in great demand everywhere, and can be had in any strength from the ϕ (mother), $1x$: 1, and upwards.

1/- Size

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A smaller Case can also be had of the same pattern.

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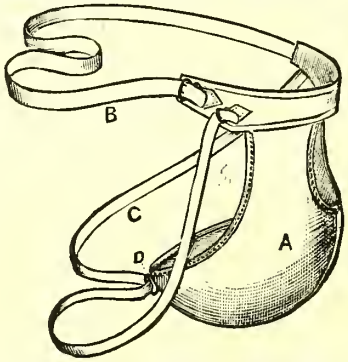

Each Bandage bears a Guarantee to give satisfaction to wearer, or money returned at our expense.

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	6/6	12/	18/	per doz.

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moments of an expiring year are generally devoted by serious people to reflection. Business men look back and see where they have gained or where they have lost, and, if the latter, how to prevent it in the future. Some may have lost through the omission to stock Spratt's Patent Biscuits, Cod-liver Oil Cakes and Medicines, as well as Soap which earns the gratitude of our pets by keeping them "happy and free from fleas." Turn these last

MOMENTS

to thoughts for the future, and make up your minds to lay in a stock of all these good things at the commencement of the New Year. Chemists who have not already augmented their incomes by keeping our goods during the past twelve months, should open an account with us, when we are sure they, as well as their customers, will be pleased. In order to assist in the sales and to provide your customers with useful information for the care, treatment, and comfort of their pets, we issue booklets for gratis distribution. We should be glad to send you a parcel

OF THE

books on receipt of request with business card. There is good business to be obtained by stocking our goods, and if our advice is accepted, there will be, we are sure, a pleasant business relationship which will hereafter enable Chemists to look back upon the

OLD YEAR

of 1893 with satisfaction.

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ASSISTED BY MR. F. LAWSON, PH.C.

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The next course of Lectures will commence on Monday, January 8th, 1894, for which entries are now being made.

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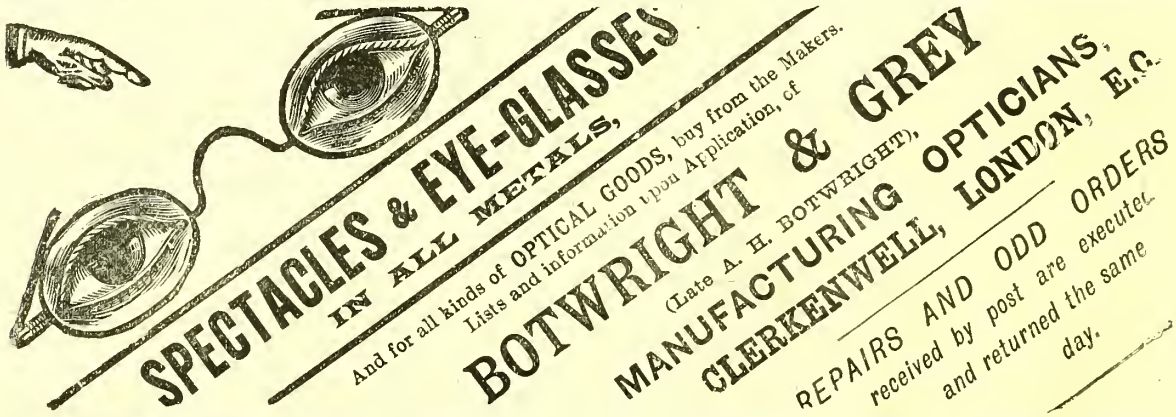

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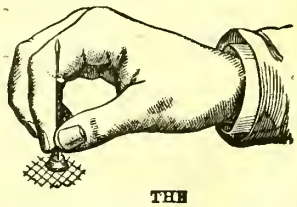
Trade Mark.  Registered.

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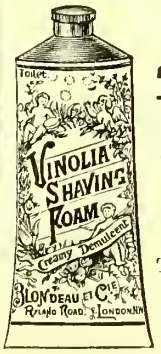

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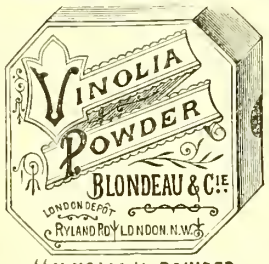

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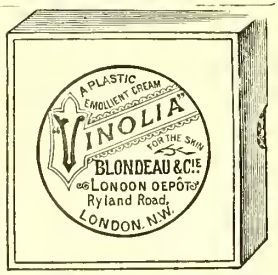

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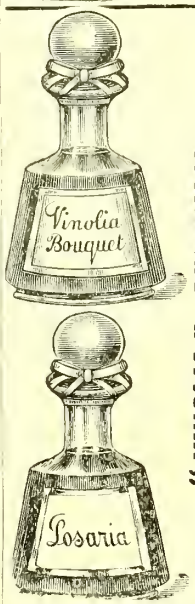

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Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of the CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word, as *e.g.*, £1 10*s.* 6*d.*

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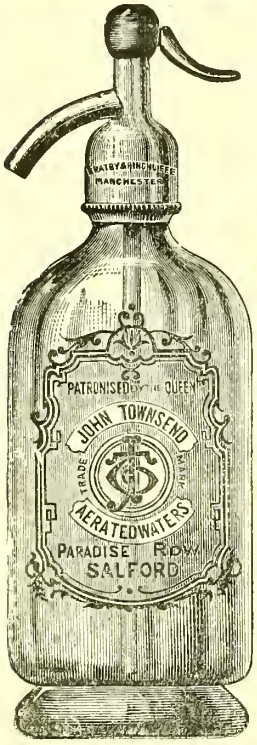

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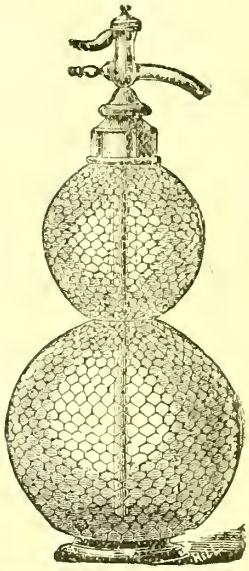

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SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed.

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ÆSCULAP, CARLSBAD, CARLSBAD SALTS, LA-BOURBOULE, ROSBACH, VALS, ETC., ETC.

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Æsculap	15/-	12/-	25	30/-	50	50/-
Apollinaris	6/3	5/-	50	25/-	100	39/-
Bourboule (La)	11/-	—	50	42/-	—	—
Carlsbad	12/-	—	50	46/-	—	—
Condal	—	14/-	—	—	50	56/-
Contrexeville	9/-	—	50	35/-	—	—
Flitwick	24/-	15/-	—	—	—	—
Franz-Josef	—	12/-	—	—	50	42/-
Friedrichshall	13/-	10/-	25	25/-	50	40/-
Gerolstein	5/-	4/-	50	20/-	50	15/-
Hunyadi-Janos	15/-	13/-	25	30/-	50	50/-
Johannis-Brunnen	6/-	4/6	50	22/-	100	35/-
Kronenquelle	10/-	—	50	40/-	—	—

NAME	Per Dozen Bots.	Per Dozen ½ Bots.	Original Packages Bottles	Original Packages Bottles	Original Packages ½ Bottles	Original Packages ½ Bottles
Levico	—	15/-	—	—	—	—
Pullna	12/-	8/-	40	36/-	40	25/-
Reginaris	5/6	4/6	50	21/-	50	17/-
Roisdorf	6/-	—	50	25/-	—	—
Rosbach	6/-	5/-	50	25/-	100	39/
Royat	9/-	—	50	34/-	—	—
Rubinat	15/-	9/-	25	30/-	50	36/-
St. Galmier	6/-	—	50	22/-	—	—
St. Marco	11/-	6/6	50	42/-	100	52/-
Selters	6/-	4/6	50	24/-	50	17/-
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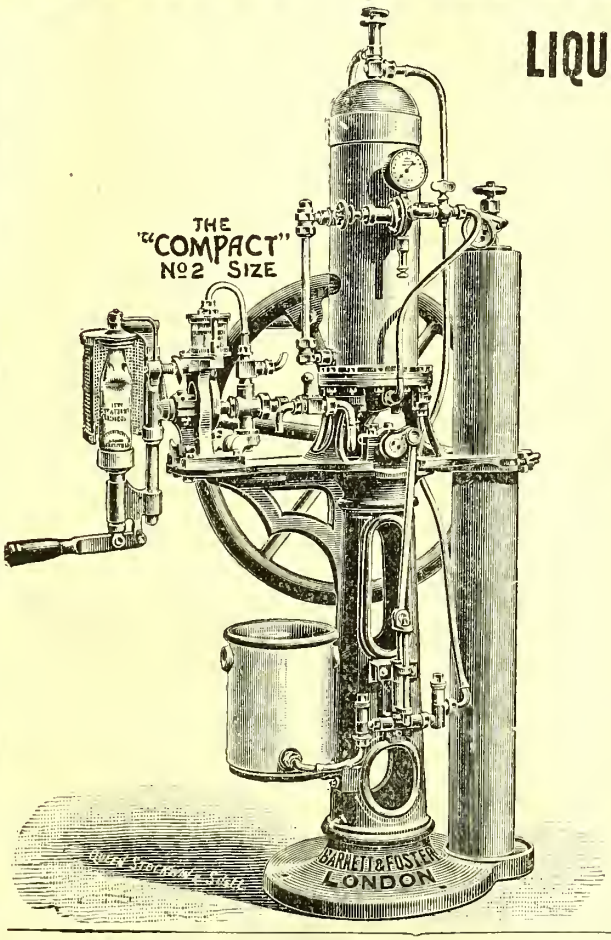


From Mr. A. Thompson, M.P.S., 98 High Street, Putney, S.W.

June 11, 1891

I am more than satisfied with the "Compact" Machine, which answers my utmost requirements. I have nearly trebled my sale this last three weeks.

I find the waters produced by this Machine far better than I have been able to obtain from any one, being much more saturated with the gas, and the Syphons emptying themselves straight off, without shaking.

From Mr. C. F. Wyatt, Chemist, Rochester.

December 16, 1892.

Replying to your inquiry as to "Compact" Soda Water Machine I can only say that I am satisfied with it and the work it does in every possible way. The aëration of the water is perfect, and my customers are now highly pleased with the quality of the goods.

I would also add that beyond the renewal of a few washers, no repairs of any kind have been required since I had it, some fifteen months since.

THE

No. 2 "COMPACT" Machine

(AS SHOWN).

Producing capacity, by hand, 35 dozen per hour.

PRICE £48.

Or, if fitted for steam, 70 dozen per hour (with an extra filling machine).

NOTE.—Any kind of filling machine can be attached to the "Compact" Machines, EITHER for Syphons, Internal Stoppered, Cork, or Screw Bottles.

Iron Vessel containing an average of 28 lbs. by weight of Liquefied Gas } 10s. each.

And has sufficient Gas to manufacture about 18 gross of highly-charged Soda Water (10-oz. Bottles), or double this quantity of splits.

These Machines occupy little space, and are ready for use immediately! They require no fixing! Are self-contained and produce soda water, lemonade, &c., of the highest class and greatest purity, at a minimum of cost.

THE

'LONDON-MADE' SYPHON

(Title Registered).

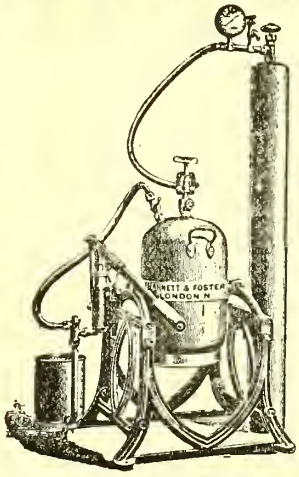
It is the Cheapest, Strongest, Handsomest, and Best in the World.

Pure Block Tin Tops.

PRICE 1/6 EACH.

Nickel-plating Tops from 3*d.* each. Silver-plating Tops from 4½*d.* each. Marking on Tops Free for orders of 250. Marking on Vases Free for orders of 1,000.

THE PORTABLE CYLINDER



[Portable Cylinder with Pump fitted to Rocker.

As here shown, is charged with plain filtered water while on the Rocker; the gas from the vessel is then slowly turned on, and the copper cylinder rocked backwards and forwards sharply so as to agitate or mix the water and gas together. When charged to the required pressure (about 110 lbs., shown by the pressure-gauge), it can be removed and attached to the Counter Fountain, or for a filling machine if desired.

Prices.

	£	s.	d.
Six-gallon Tinned Copper Cylinder	5	10	0
Cast-iron Rocker ..	1	2	6
Flexible Pipe, Pressure-gauge, Safety-valve, & Connections	3	3	0
If fitted with Pump for pumping the water into the cylinder (and so avoiding waste of gas) extra	5	5	0

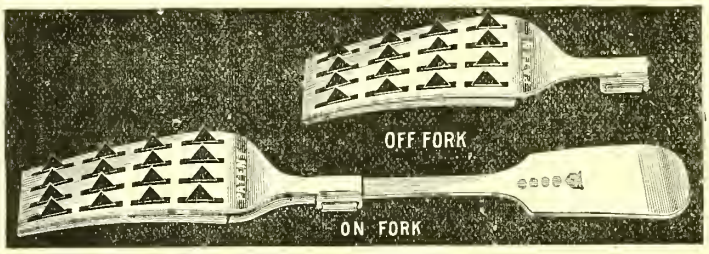
Prices of larger Cylinders upon application.

ILLUSTRATED CATALOGUE FORWARDED FREE UPON APPLICATION TO

BARNETT & FOSTER, "Niagara Works," 26T Eagle Wharf Road, **LONDON, N.**

THE PATENT MASTICATOR.

(16 BLADES IN ONE).



To use in place of Knife for preparing chops, steaks, and all roast or boiled meats for mastication, by mincing and pulping same on your warm plate, and so preserving all the nutriment. Those **with good teeth** should use the **Masticator to save them**; those **with defective teeth** should do so **to assist mastication**; and those **with artificial teeth** should use it **to prevent damage or breakage**; in fact, no dinner table is complete without **the Masticator.** It is invaluable to the **Aged, Young Children,** and all suffering from **Weak Digestive Organs,** or those **who eat quickly.**

RETAIL OF ALL CHEMISTS.

The Masticator on White Metal Fork 2/6 each, or a Superior Finish on Electro-Plated Fork .. .. 5/- each
Complete in Box.

Agents wanted in all towns.

FORDHAM & SMITH, 61 Helmet Buildings, Wormwood Street, LONDON, E.C.

FINEST PREPARATION OF

BEEF, MALT & WINE

We use Alto Douro Port Wine, Kepler Extract of Malt and Beef Jelly, containing 53.40 Albumen.

GLENDENNING'S BEEF & MALT WINE

The most eminent of the Medical Profession constantly do us the honour of prescribing "Glendenning's" particularly. Chemists who stock our preparation find their sales increase.

Sole Proprietors, WM. GLENDENNING & SONS, Wine Importers, Newcastle-on-Tyne
(Established 1867).

Distributing Agents:—Maw, Son, & Thompson, Aldersgate Street, London; Southall, Bros. & Barclay, Bull Street, Birmingham; Goodall, Backhouse & Co., Leeds.

"COCA-TONIC CHAMPAGNE"

(LAURENT-PERRIER).

The only Coca Wine prepared by actual Champagne Growers in France. Of high quality, well matured, and absolutely Sugar-free.

Of all Wholesale Houses, or direct from the Sole Consignees, Hertz & Collingwood, 4 Sussex Place, Leadenhall Street, London.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

A. MILLAR & CO., DUBLIN; and 47 MARK LANE, LONDON, E.C.

Or of H. J. ROYDANT & CO., 75 Acre Lane, BRIXTON, S.W.

HIRST, BROOKE & HIRST (LIM.), LEEDS,

Manufacturing Chemists and Wholesale Druggists, Manufacturers of

ORANGE WINE

Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

WYETH'S BEEF JUICE

PREPARED BY

JOHN WYETH & BROTHER,

MANUFACTURING PHARMACEUTICAL CHEMISTS

Philadelphia, U.S.A. 30 Snow Hill, London.

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RAIMES, CLARK & CO., Edinburgh, for Scotland.
JAS. WOOLLEY, SONS & CO., Manchester, for Lancashire.
GOODALL, BACKHOUSE & CO., Leeds, for Yorkshire.
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WHOLESALE CHEMISTS who buy from FIVE to THIRTY GROSS AT A TIME OF

WYETH'S BEEF JUICE,

and so can supply large buyers upon ADVANTAGEOUS TERMS:

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LYNCH & CO., Ld., 192 Aldersgate Street, E.C.
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LONDON.

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EVANS, SONS & CO., LIVERPOOL.
JOHN THOMPSON, ,,
RAIMES & CO., YORK.

In addition to the above List, the sale of WYETH'S BEEF JUICE, and other preparations, *has become so extended that any* WHOLESALE CHEMIST *will procure it on order.*

Physicians in Hospitals and in their Private Practice are treating the two Epidemics, **INFLUENZA and TYPHOID FEVER,** with great skill, and for a **Nourishing and Stimulating Food** are prescribing and using

WYETH'S BEEF JUICE,

A preparation in which there is five times more nourishment than in any similar preparation, as ALL the albuminous principles of beef are preserved in an active and soluble form—one in which the proportion of nutriment to stimulating properties is such that it is acceptable to the most delicate or debilitated stomach, and is alike satisfactory to the Physician and Patient—**it is so pleasant and agreeable to the taste. The local demand in Great Britain for**

WYETH'S BEEF JUICE

has doubled this month, and for the information of RETAIL CHEMISTS who do not already carry it in stock we have published the above list.

ANY RETAIL CHEMIST desiring a Sample of **WYETH'S BEEF JUICE** sent to any of his Medical friends in his name, should send full addresses and request to

Resident Representative
JOHN WYETH & BROTHER,
Philadelphia, U.S.A.

WILLIAM F. HORTON,
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LONDON.

MASON & CO.'S, LIM.

PREPARATIONS.

TRADE MARK.

Essence of Beef	Meat Juice
Essence of Chicken	Malted Food for Infants
Essence of Veal	Extract of Malt
Essence of Mutton	"O.K." Bouillon
Beef Tea Jelly	"O.K." Sauce
Concentrated Beef Tea	"O.K." Relish
Meat Lozenges	"O.K." Curry Powder

SEND FOR PRICE LIST.

417 & 419 KING'S ROAD CHELSEA, LONDON, S.W.

ONE BY ONE!

PASCALL'S SILVER CACHOUS

BRILLIANTLY POLISHED.

FRAGRANT AROMA.

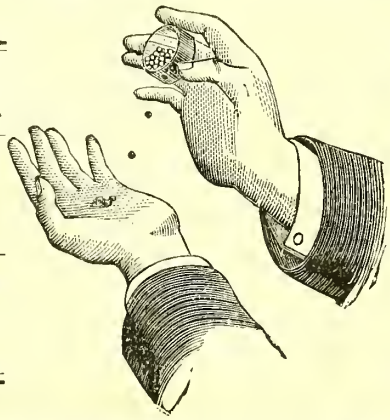
FINEST IN THE MARKET.

IN ROUND PATENT BOXES, MADE TO RELEAS ONE BY ONE

QUITE NOVEL

PREFERRED TO ALL OTHERS.

In 1 dozen Outer Boxes.



Most Saleable

2/3 per dozen. In 1-lb. Bottles 3/6 per lb.

Of the usual Wholesale Houses, and of the Manufacturer,

JAS. PASCALL, Blackfriars Rd., LONDON, S.E.

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S

HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6*d.*, 1*s.*, & 2*s.* each.

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The Best in the World. 1*d.* Packets; 6*d.*, 1*s.*, 2*s.*, and 5*s.* Tins.

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One 6d. Tin is equal to 25 Eggs. In 1*d.* Packets; 6*d.*, 1*s.*, and 5*s.* Tins.

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Delicious Custards without Eggs. In Boxes, 2*d.*, 6*d.*, & 1*s.* each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6*d.* and 1*s.* each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6*d.*, 1*s.*, and 2*s.* each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3*d.* and 6*d.*

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6*d.* & 1*s.* Bottles.

GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1*s.*, 2*s.*, and 5*s.* each.

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For Polishing and Cleaning all Metals. Boxes, 6*d.*, 1*s.*, and 2*s.*

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint, and Quart Boxes, 3*d.*, 6*d.*, and 1*s.* each.

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Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

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will be glad to hear from all Chemists wishing supplies of the new embossed leaflet advertising

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which they claim to be the most attractive and artistic leaflet yet issued. Supplies are forwarded gratis and carriage paid.

Also, for distribution to

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Armour & Co. will send free to customers supplies of an elegant and useful card-case and note-book on request.

Special attention is directed at this time of the year to

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with recipes for the preparation of Peptonised Emulsion of Cod Liver Oil, &c.

Price Lists of Pepsins, Glycerole Pepsin, Peptonising Tablets, Extract of Beef, &c., Literature, Show Tablets, free on application.

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SMALL OUTLAY. LARGE PROFIT.

40 Per Cent. PROFIT on SALE of PEPSALIA GUARANTEED.

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NONE GENUINE WITHOUT THE

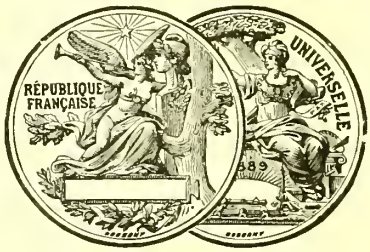
REGISTERED TRADE MARK.

TOWER TEA

HIGHEST AWARD, PARIS, 1889.

Analysis by the "LANCET," December 20th, 1890:—

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."



PRIZE MEDAL, PARIS, 1889.

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STANDARD

BLENDED TEAS.

No. 1	Blend	..	10d.
1A	"	..	11d.
2	"	..	1/-
3	"	..	1/2
4	"	..	1/4
5	"	..	1/7
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DUTY PAID PRICES.

CARRIAGE PAID on 60 lbs. and upwards for NETT CASH.

SPECIAL

CEYLON SIFTINGS.

MATCHLESS LIQUOR

To Retail at 1/4.

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DUTY PAID AND CARRIAGE PAID.

Handbills, Window Bills, Bags, &c., supplied.

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NESTLÉ'S FOOD

An entire Diet for Infants, Children, and Invalids.

"Renders valuable assistance in Wasting Fever."
"Beneficial as a Diet in Severe Cases of Typhoid."
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Pamphlet containing Extracts from Standard Medical Works in which the above Testimony is given, sent free with Sample Tin on application to H. NESTLÉ, 9 Snow Hill, London, E.C.

The attention of the Medical Profession is also drawn to

NESTLÉ'S SWISS (CONDENSED) MILK.

Which, through its RICHNESS in CREAM and UNIFORMITY of QUALITY, has obtained the Largest Sale in Great Britain. It can be used for all purposes of FRESH MILK.

Samples to Members of the Medical Profession only, sent free on application to H. Nestlé, 9 Snow Hill, London, E.C.

40 PRIZE MEDALS. 3 Factories: PARIS, LONDON, STRASBOURG.

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Purveyors to H.R.H. the PRINCESS of WALES.

REVIVISCENT CHOCOLATE.

Invented and prepared chiefly for use in cases where Sugar is considered harmful.

WHOLESALE TRADE PRICE, 4s. per lb.

LONDON BRANCH:

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MACHINE-CUT

LEMON AND SEVILLE ORANGE PEELS

(FRESH or DRIED).

Having received several shipments of Seville Oranges and Messina Lemons, we are prepared to supply the *specially* machine-cut Peels which have given such general satisfaction to the trade since their introduction. The Fresh Peels are cut *free from pith* in small shreds (about 1″ × $\frac{1}{16}$″), a condition acknowledged to be the most favourable for the manufacture of Official Tinctures and Infusions and of Soluble Essences.

The **DRIED PEELS** are cut as free from pith as possible, and every care taken in drying to preserve the colour and aroma.

Samples will be sent free on application.

CHARLES SOUTHWELL & CO., DOCKHEAD, S.E.

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SPECIALITIES—

THE NEW PRESERVATIVE.

SEMPER-DULCIS or EVER-SWEET

For Milk, Butter, Cream, Sausages, &c., &c.

FINEST BUTTER COLOR

(BUTTERCUP BRAND).

ACIDS OF ALL KINDS.

GRANULATED EFFERVESCENT PREPARATIONS.

BUYERS SHOULD SEND FOR QUOTATIONS.

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MASON'S EXTRACTS

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EXTRACT OF HERBS	LEMONINE
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FULL STRENGTH & FINE AROMA.

This Popular Preparation shows no signs of losing its hold upon the public taste,

NOTWITHSTANDING

the many cheap and worthless substitutes offered.

Our article is of first-rate quality, and never varies in constitution. It gives the greatest satisfaction.

PRICES:

IN BULK.	IN BOTTLES.
Per lb, **10d.**; W. Qts., per lb., **9½d.**; 10 Gall. Casks, per lb., **8½d.** SPECIAL STRENGTH, per lb., **1/6**; W. Qts., per lb., **1/4**.	4 oz. (1/- size) at **4/6** per dozen. An exceptionally cheap and well-got-up line; labels in colours, with cardboard outer. 6*d.* size (panelled bottle, wrapped), **3/-** per dozen.

GINGER WINE ESSENCE.

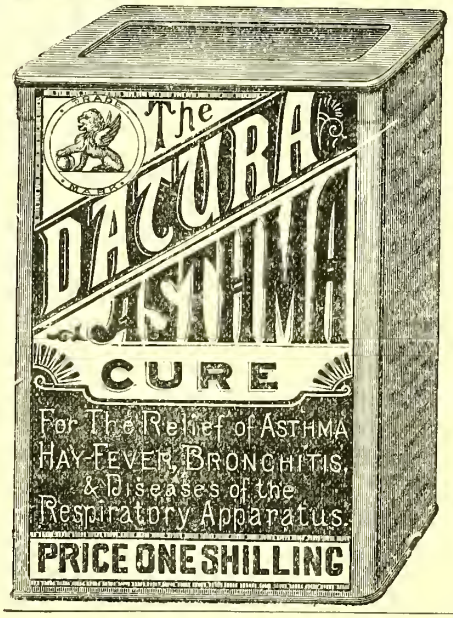
Made from the finest Jamaica Ginger for the immediate production of a delicious stimulating Temperance Beverage.

THE DRINK FOR EVENING PARTIES, WINTER GATHERINGS, &c.

Does not infringe the requirements of the Excise Regulations, and may be sold without fear.

1/- lb.; W. Qts, 10d. lb.; 6d. bottles, 4/- dozen; 1/- bottles, 7/- dozen.

THE "DATURA" ASTHMA CURE.



The MOST SALEABLE ASTHMA CURE.

CHARACTERISTICS:

HIGH-CLASS STYLE.

POPULAR PRICE.

CERTAIN RESULTS.

It never fails to give Relief.

No Chemist should be without a 1 dozen box of this preparation. Full supply of Show Cards, Bills, &c., with each order.

PRICE 8/- PER DOZEN.

PROPRIETORS AND MANUFACTURERS:

POTTER & CLARKE, WHOLESALE BOTANIC DRUGGISTS,

5, 6 & 7 RAVEN ROW, ARTILLERY LANE, LONDON, E.

PETER TYRER'S 1D. LINES

CHEMISTS SAVE TIME AND MONEY

By selling my "Plain Label"* Lines. Should remit prices quoted for sample ¼-gross lots. If not satisfactory, I will pay carriage back, and return cash.

***PENNY PETROLEUM JELLY** Per gross
In ¼-gross tin boxes .. .. 5/; double size, 7/6

PENNY CEMENT *(largest and best)*
On ¼-gross cards 5/3

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¼-gross glass-top boxes .. .. at 6/

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½-gross glass-top boxes .. .. at 2/9

PENNY LIQUID GLUE
On ¼-gross cards .. .. at 5/3

***PENNY GUMS**
In 1-dozen parcels .. .. at 6/3

***PENNY GLYCERINE**
½-gross glass-front boxes .. .. at 6/6

***PENNY CASTOR OIL**
½-gross glass-front boxes .. .. at 6/

***PENNY BLACK INK**
In 1 dozen parcels .. .. at 4/3

***GOLDEN PETROLEUM JELLY** Per doz.
4-oz. glass, metal screw cap 3/
8-oz. " " 5/
This is warranted pure, and is a thoroughly good line.

***PENNY HAIR OIL** Per gross
In 1-dozen parcels .. .. at 5/9

PENNY FURNITURE CREAM
In 1-dozen parcels .. .. at 6/9

PENNY INSECT POWDER
In perforated tins .. .. at 4/6

***PENNY MENTHOLS**
On ¼-gross cards .. .. 5/9 and 8/6

***PENNY** *(Tasteless)* **PILLS**
6 in a box, ¼-gross cards 4/6

SPECIAL NEW LINE.

***PENNY** *(Tasteless)* **PILLS**
4 Pills in a box, ¼-gross cards 3/9

***PENNY SOOTHERS**
Black Teats, fitted complete with Shield, Union, and Cord, on ¼-gross cards at 7/-: this is a good line, and sells freely.

***PENNY TOOTH TINCT.**
With Wool complete, ¼-gross cards 5/6

"I appeal to every sensible person."

SAUCES.

See Special Price List.

***PENNY CORN SOLVENT** Per gross
On ¼-gross cards 5/6

PENNY CAMPHOR SQUARES
¼-gross boxes 7/

***FULLER'S EARTH POWDER**
1*d.* Boxes, in ¼-gross glass-top boxes 3/6

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1*d.* Boxes, in ¼-gross glass-top boxes 4/

***GOLD-BEATER'S SKIN**
1*d.* Packets, on ¼-gross cards 3/6

***COURT PLASTER**
1*d.* Packets, on ¼-gross cards (Black, White, or Pink) 4/

***TOOTH ENAMEL**
(Gutta Percha Enamel for Stopping Decayed Teeth.)
1*d.* Packets, on ¼-gross cards 4/

For sums under £1 please remit Postal Order, not Cheque, and oblige, [3]

PETER TYRER, 30 Southall Place, Long Lane, **LONDON, S.E.**

Dorothy Toilet Preparations

For the Teeth, Complexion, Hair, & Hands

Are used and recommended by leading members of the Musical & Dramatic Profession, who are surely the best possible critics of such articles. They are all well advertised, and we should be pleased to correspond with chemists wishing to take up agencies for these popular toilet necessaries.

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Dorothy Dentifrice Company,
11 and 13 St. Bride Street, LONDON.

"EAU-HORN"

(REGISTERED TRADE MARK)

THE CURE FOR

BALDNESS.

Retail Price 5/- per Bottle.

Messrs. CASSIE & CO., 49 Newgate Street, London, E.C., will be happy to quote *most advantageous* terms for the above, and Dr. Horn's other renowned Specialities for the Hair.

NAMES OF AGENTS WELL ADVERTISED. HANDSOME SHOW CARDS, &c.

The above goods enjoy an enormous and ever-increasing sale in all parts of the World. Sole Proprietor—

O. E HORN, D Sc., Newport, I.O.W.

CALVERT'S INDIAN BATH SOAP

(REGISTERED),

Contains 15 per cent. of genuine Carbolic, which is the best remedy for Sores, Insect Bites, Stings, Ringworm, Prickly Heat, or other Skin Ailments and Parasitic Complaints.

Sold in Tablets, WITHOUT PRICE ON, *at* **2/-** *per dozen Box, less usual Trade Discount.*

F. C. CALVERT & CO., MANCHESTER,

HAVE BEEN AWARDED

60 GOLD AND SILVER MEDALS AND DIPLOMAS

For the Superior Excellence of their Preparations.

GOLD MEDAL

JAMAICA EXHIBITION.

A PURE AND PERFECT ARTICLE FOR Teeth, Gums, and Breath.

PURILINE

REGISTERED

TOOTH-POLISH

Will purify and beautify the Teeth with a pearly whiteness polish the enamel; prevent tartar; destroy all living germs and keep the mouth in a delicious condition of comfort, health, purity, and fragrance. Non-gritty, and absolutely pure and harmless to use. Price One Shilling, in handsome Enamel Box.

The POPULAR DENTIFRICE, which Sells at Sight,

Handsomely put up in Show-cases, as here shown. Printed in Twelve Colours. An ornament to any window.

Price 7/6 per dozen, of all Wholesale Houses.

The COURT CIRCULAR says:—"'Puriline' emanates from the laboratory of 'Bunter's Nervine' fame. Bunter's previous preparations for the teeth have received such high encomiums from medical men that it is not surprising that this latest production should have received the recognition and approval of those best qualified to pronounce on its merits."

H. M. STANLEY, D C.L., LL.D., the great African explorer, says:—"I use 'Puriline Tooth Polish and Wash'; am much pleased with both."

The Countess of ROSSLYN writes:—"Have been recommended to use your Dentifrice, called 'Puriline.' It is extremely nice; please send me six more."

Show-cards and Handbills supplied by

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Proprietor of "Bunter's Nervine," "Dentine," and "Puriline."

THE BEST

THE 4711 BRAND.

EAU DE COLOGNE.

THE 4711 BRAND.

Commands the Highest Retail Price.

Beware of fraudulent imitations of our Registered Label.

THE 4711 BRAND.

OF ALL FIRMS IN THE TRADE

THE 4711 BRAND.

Write for New Duty-paid Price List to

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STOCK KEPT IN LONDON.

SOZIO & ANDRIOLI

ESTABLISHED A.D. 1757.] GRASSE (Alpes Maritimes), FRANCE.

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme, Rosemary, Spike, Santal, &c.

CONCENTRATED PERFUMES. | CONCRETE ESSENTIAL OILS.

FLOWER POMADES at the highest possible Saturation. ROSE & ORANGE FLOWER WATER, Sweet Almond Oil.

London Agent—MR. FREDK. BOEHM, 4 CULLUM ST., E.C.

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THE GENUINE DALMATIAN INSECT POWDER,

Essential Oils, Fruit Essences, and French Extraits (Triple),

Formerly supplied by G. VOGT & CO., are now to be obtained from

STEVENSON & HOWELL, Standard Works, 95a Southwark Street, LONDON, S.E.

Who have taken over the Business and Stock.

Telegrams—"Distiller London." *PRICE LISTS FREE.* *Telephone 4747.*

JOSEPH WATSON & SONS,

MANUFACTURERS OF

GLYCERINE

DOUBLE DISTILLED CHEMICALLY PURE 1260 Sp.G.

ALSO FOR

NITRO-GLYCERINE AND OTHER MANUFACTURING PURPOSES.

PACKED IN 10 AND 5 CWT. IRON DRUMS, TO BE RETURNED, AND IN 56 LBS. TINS FREE.

WHITEHALL SOAP WORKS, LEEDS.

NET CASH WITH ORDER.

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PERFECTLY PURE.

FIT FOR ANY PURPOSE.

PURE ORANGE WINE.

S 0/31 V 0/64 M

AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS,

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

Per doz. 42/- Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. 42/- Per doz.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S. V. R.** *Methylated Spirit and Finish on application.*

FINEST ORANGE WINE FOR QUININE.

JAMES BURROUGH S.V.R. 65 o.p. 60 o.p.

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

WRITE FOR QUOTATIONS.

PRIZE MEDAL, International Health Exhibition, 1884.

THE NEW PERMANENT

ENGRAVED WINDOW TABLETS

AWARD OF MERIT International Sanitary Exhibition, 1881.

IN RUBY, BLUE, AMBER, AND OPAL GLASS.

Send particulars of size, subject matter, and colour, when price for one Tablet and upwards will be sent.

For Proprietary Articles, 100 8×6 Ruby Tablets, £3 15s. 0d.

J. R. CORSAN, The London Sand-blast Works, 58a GRAY'S INN ROAD, W.C.

TO PREVENT FRAUD, DEMAND BUSINESS CARD FROM TRAVELLERS.

ESCHMANN BROS. & WALSH,

Inventors and Manufacturers of the

SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

To be had of all Surgical Instrument Makers and Wholesale Houses.

To be had of all Surgical Instrument Makers and Wholesale Houses.

POSITIVELY THE BEST DRESSING
FOR STRENGTHENING, BEAUTIFYING, AND PRESERVING THE HAIR.

EDWARDS' "HARLENE"

WORLD-RENOWNED HAIR PRODUCER AND RESTORER.

FOR THE HAIR.

FOR THE HAIR.

Handsomely framed Show-card, in 15 colours, size 16 by 21, and 1,000 Counter Bills with Name and Address of Agent, will be sent, Carriage Paid, on application to us or your Wholesale Agent.

1s., 2s. 6d., 3s. 6d., and 5s. 6d. per Bottle, from Chemists, Hairdressers, and Perfumers all over the world.

MANUFACTURED ONLY BY

EDWARDS & CO., 95 HIGH HOLBORN, LONDON, W.C.

PARIS EXHIBITION, 1889.

PRIZE MEDAL AWARDED TO

"SALVO PETROLIA"

Absolutely Genuine Paraffinum Molle of the very Purest Form, and we claim that it is superior to Vaseline.

Manufactured by the Proprietors in Five distinct qualities—

WHITE, LEMON, YELLOW, GOLDEN, AND VETERINARY.

PACKED IN TINS, 1, 5, 10, 14, 28, 56, and 112 lbs. Also in 3-cwt. Casks.

Samples and Prices on application.

"EDIBLE SALVO PETROLIA,"

For Public Speakers, Actors, and Singers.

1*s.* 6*d.* per Tube.

"OLEUM DEELINÆ"

(REGISTERED).

Universally adopted by the Medical Profession for

OPHTHALMIA, SCURVY, RINGWORM, ECZEMA, AND ALL SKIN-DISEASES.

For External and Internal Irritation of every kind.

PACKED IN CASES—

One Doz. 1s. 6d. Bottles; One Doz. 2s. 6d. Bottles.

Pint Bottles, 4*s.* 6*d.* each, less Trade Discounts.

For Hospital and Dispensary purposes in larger quantities.

TESTIMONIALS MAY BE HAD UPON APPLICATION.

The above are Manufactured Solely by the Proprietors,

THE DEE OIL COMPY.

LIMITED.

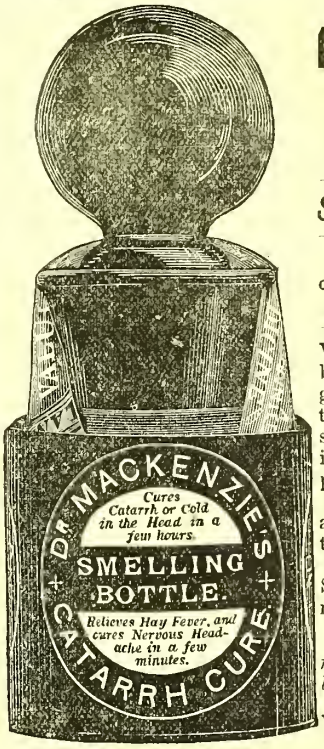
Works—SALTNEY, CHESTER.

LONDON OFFICES—

49 LIME STREET, E.C.

Liverpool, Dublin, Manchester, Glasgow, Hull, Cardiff, Bristol, Belfast Barrow-in-Furness, Nottingham, Paris, Hamburg, &c.

EXACT FACSIMILE



OF BOTTLE AND LABEL.

THE MOST POPULAR REMEDY OF THE DAY.

SELLS AT SIGHT.

Has the Largest Sale of any Smelling Bottle in the World.

Wherever introduced has become a general favourite, giving universal satisfaction to both buyer and seller, commanding an increasing sale through personal recommendation.

Bears a larger profit than a fancy bottle, without the trouble of filling.

It is the best-got-up Shilling Article in the market.

Correspondence solicited from pushing houses publishing Price Lists.

Wholesale from all Patent Medicine Depôts.

Artistic Show Cards and Printed Matter from

MACKENZIE'S CURE DEPOT, READING.

JEAN NIEL

GRASSE (ALP. MES.) FRANCE.

RAW MATERIALS FOR PERFUMERS, SOAP-MAKERS AND WHOLESALE DRUGGISTS.

Essential Oils, Perfumed Oils, Pomatums, Floral Waters, Olive Oils.

LONDON AGENTS—

BRUMMERSTAEDT & LÜDERS,

60 MARK LANE, E.C.

FOUND DEAD!

KILLED BY SANFORD'S RAT POISON,

Which is said by Farmers to be the best and most effective ever introduced. Mr. Bliss, Farmer, Helethorpe, Leighton, writes, "That from one dressing he found 136 dead Rats next morning." Ald. Ashton, of Huntington, says he killed 70 Rats with a 1*s.* box of SANFORD'S RAT POISON. J. Long, Esq., of Carlton, states that he found over 300 Rats killed by using a 10*s.* tin of Poison. Price 6*d.*, 1*s.*, 2*s.*, 3*s.*, and 5*s.* per tin. To be had of all Chemists, or SANFORD & SON, SANDY, BEDS. Wholesale of Maw, Son & Thompson, Newbery & Son, Edwards & Son, and others, London.

SPECIAL LINE—FEEDING BOTTLES.

GREEN GLASS, Plain Neck, best Black Rubber Fittings 20/6 per gross.
WHITE GLASS, Screw Neck, best Black Rubber Fittings 27/11 „
VEGETABLE IVORY RING SOOTHERS .. .. .. 8/6 „

Terms—Net Cash with order, packages free, delivered to rail or wharf, London.

SURREY PACKING CO., 57 New Kent Road, LONDON, S.E.

THE SPECIAL ATTENTION OF CHEMISTS

IS DRAWN TO THE FOLLOWING:—

LINSEED, LIQUORICE, AND CHLORODYNE COUGH LOZENGES.

A HANDSOME COUNTER MAHOGANY SHOW CASE

Given to any Chemist buying 1 cwt. of above Lozenges. Price 1/- per lb. net.

GIBSON'S VOCAL LOZENGE

"TOP NOTE PRODUCERS."

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affections. Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknown to those who regularly use these valuable Lozenges. **Sold in 1/1½ and 2/9 Boxes.**

CHERRY BLOSSOM LOZENGE,

The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver Top Screw-stoppered Bottles.

VOICE AND THROAT LOZENGES,

FOR SINGERS AND PUBLIC SPEAKERS.

DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retailed at One Penny each.

Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

As they will keep in any climate, a steadily increasing demand is made for them for EXPORT.

Put up in 3-doz., 6-doz., and 1-gross Tins. [1]

Indents from abroad, marked "GIBSON," may be sent to any Wholesale Drug or Shipping House in the Kingdom.

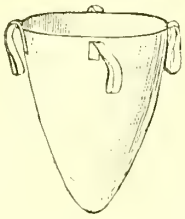
Price Lists sent on application to

ROBERT GIBSON & SONS, CARLTON WORKS, MANCHESTER.

AND

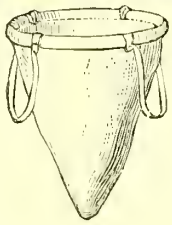
NO. 1 GLASSHOUSE YARD, ALDERSGATE STREET, LONDON.

SUPER FELT JELLY BAGS



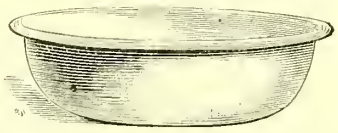
No.			Per doz.
1. Jelly Bags, holding	1	pint	12/-
2. ,, ,,	1½	,,	13/-
3. ,, ,,	3	,,	15/-
4. ,, ,,	2½	quarts	17/-
5. ,, ,,	4	,,	20/-
6. ,, ,,	12	,,	23/-
7. ,, ,,	16	,,	26/-
8. ,, ,,	22	,,	36/-
9. ,, ,,	23	,,	43/-
Tammy Cloth ...		...	1/6 per yard

FLANNEL JELLY BAGS



Diameter.			Per doz.
5 inch, to hold about	1	pint ...	6/6
6 ,, ,,	2	,, ...	8/-
7 ,, ,,	3	,, ...	11/-
8 ,, ,,	5	,, ...	13/6
9 ,, ,,	4	quarts	16/-
10 ,, ,,	6	,,	19/-
11 ,, ,,	7	,,	22/-
12 ,, ,,	8	,,	24/-
13 ,, ,,	10	,,	28/-
Jelly Bag Stands, No. 1			each 3/2
,, ,, ,, 2			,, 3/6

NEW PULP BOWL



Furnished in neat colours, and will be found very suitable for Apothecaries, &c., for washing Measures and Glasses.

10 in. Round ... 8/3 per doz.

We publish a full List of this Patent Unbreakable Pulp Ware, containing such goods as Basins, Oval Tubs, Crumb Brushes and Trays, &c., &c., and shall be pleased to forward same on application.

THE PATENT MASTICATOR

SIXTEEN BLADES IN ONE.

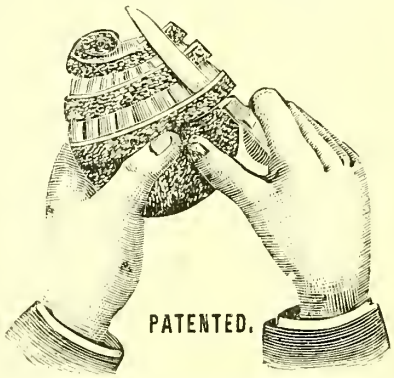
Invaluable to the aged, young children, and all suffering from weak digestion.

THE MASTICATOR.

On White Metal Fork ... ... 1/8 each.
On Electroplated Fork ... ... 3/4 ,,

THE "SIMPLEX" FRUIT KNIFE

AND ORANGE PARER.



Unequalled for Paring all kinds of Fruit, and is a perfect Orange Peeler. For paring Oranges and every kind of fruit. Made of the finest quality steel, electroplated, they are suitable for the highest classes of society, while their low price places them within the reach of all. Price per doz., 12/-

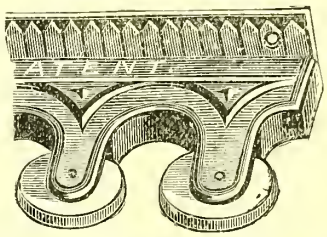
Sample by post, 1/2.

Also a cheaper Orange Parer at 1/2, 4/-, 7/-, 7/6, 8/6, 16/-, 20/- per dozen.

Sample of any by post 2 extra stamps.

UMBRELLA HOLDER

(HOUGH'S PATENT.)

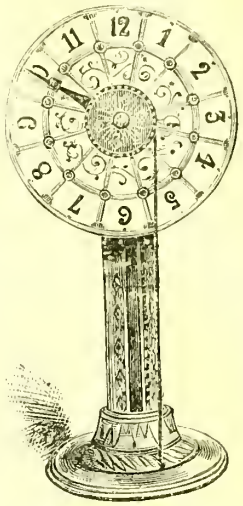


It takes any size Umbrellas or Sticks, and is adapted for Private Houses, Offices, Shops, Mission Halls, Cloak Rooms, &c., and can be made for any number of umbrellas.

With Bronzed Iron Pans Complete.

No. of Holes	2	3	4	5	6
Bronzed Iron, per doz.	15/-	22/-	27/-	36/-	40/-
Brass ,,	28/-	37/-	50/-	60/-	72/-

THE NEW PATENT TIME LIGHT.



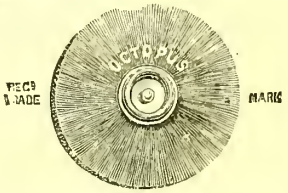
Each in a box with Directions.

Actual height, 10½ in.; Dial, 5 in.

NOVEL, INGENIOUS,
USEFUL, ORNAMENTAL,
SHOWS THE TIME,
GIVES A GOOD LIGHT.

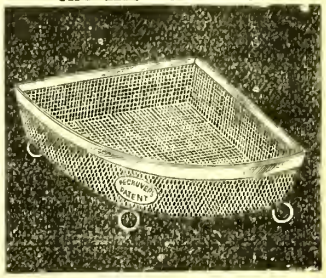
Worked by the burning of the Candle.
No Clockwork. No Ticking.
A perfect Boon in the Sick Room.
No. 1, Japanned in Art Colours, 18/- per dozen.
Lacquered brass, 24/- per dozen, with Candles complete.
Time Light Candles specially made.
8 to lb., in 1-lb. boxes, 6/6 per doz. lbs.

THE PATENT "OCTOPUS."



Automatically collects the "Fur" in Kettles, Kitchen Boilers, and Pipes.

No place so DANGEROUS as the Kitchen Sink!



"SANITARY" SINK BASKET.

Please send for full particulars, illustrated.

W. B. FORDHAM & SONS, LIM., 36 to 40 YORK ROAD, KING'S CROSS, **LONDON, N.**

Telephone Number, 1852. Telegraphic Address—CHEMICUS LONDON.

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Barnett & Foster
Burroughs, Wellcome & Co.
Chemists' Aërated Waters Association, Lim.
Ellis & Son (Enthin)
Idris & Co., Lim.
Ingram & Royle
Johannis Co.
Kinmond & Co.
Mills & Co. (Bourns)

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Barnett & Foster
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gueret Frères
Meadowcroft & Son
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

AGNCIES ABROAD
Australian Drug Co.
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [(N.Z.)
Peake, Allen & Co.
Soul, W. H., & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Smith, T. & H., & Co.

ALMANACKS
Ford, Shapland & Co.
Kay Bros.
Silverlock, H.
Taylor Bros. | Townsend, J.

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Berend, O., & Co.
Christy, T., & Co.
Hicks, J. J. | Ohlson, A
Poths, H., & Co.

BAKING POWDER
Goodall, Backhouse & Co.

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Robinson & Sons
Schutze, F., & Co.
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Wood, Vincent

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Howards & Sons
May & Baker, Lim.

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Symes & Co. | Tyrer, T., & Co.
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Isaacs & Co.
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Robinson & Sons
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Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Tomlinson & Hayward

CACHOUS
Bleasdale & Co.
Blyton, Astley & Co.
Pascall, J. | Raimes & Co.
Warrick Bros.

CAMPHOR
Fuerst Bros. | Howards & Sons
May & Baker, Lim.

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Duncan, Flockhart & Co.
Evans, Sons & Co.
Holroyd, J., & Co., Lim (Moulds)
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Richardson, John, & Co. (Leicester), Lim.
Warrick Bros.

CARBOLIC ACID
Calvert, F. C., & Co.
Mason, C. E., & Co.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co. | Moss, J., & Co.

CASTOR OIL
Allen & Hanburys
Christy & Co. (Aromaticum)
Fuerst Bros.

CATALOGUES & PRICE LISTS
Burroughs, Wellcome & Co.
Gibson, R., & Sons
Lorimer & Co.
Maw, S., Son & Thompson
May, Roberts & Co.
Newbery, F., & Sons
Sanker & Sons

CERESINE WAX
Beehm, Fredk

CHALK, PRECIP.
Levermore, Aug., & Co.
Nicholls, G. W.

CHECK TILLS
O'Brien, Thos.
Stokes, G. R., & Co., Lim.

CHEMICALS
Boehm, Fredk.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brunner, Mond & Co., Lim.
Fletcher, Fletcher & Stevenson
Fuerst Bros.
Goodall, Backhouse & Co.
Hill, A. S., & Son [Clarke
Hodgkinsons, Treacher & Howards & Sons (Pharm.)
Jones, Jno.
Lofthouse & Saltmer
Lorenz, H.
May & Baker, Lim.
Morris & Callard | Moss & Co.
Smith, T. & H., & Co.
Typke & King | Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHEST PROTCTRS
Chemists' Association, Lim.
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Maw, S., Son & Thompson
Newbery, F., & Sons
Pattison, G.
Schutze & Co. | Solport Bros.
Wood, Vincent

CHLOR. OF LIME
Government Sanitary Co.
National Chemical Co.

CHLOROFORM, &c.
Duncan, Flockhart & Co.
Macfarlan, J. F., & Son
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

CHLORODYNE
Blyton, Astley & Co.
Davenport (Browne's)
Towle, A. P., & Son
COCA & CHOCOLTE
Cadbury Bros. | Christy & Co.
Compagnie Francaise
COCA WINE
Armbrecht, Nelson & Co.
French Hygienic Soc.
Stephen Smith & Co. (Hall's)
COCAINE-HYDRO.
Howards & Sons
COD-LIVER OIL
Allen & Hanburys
Bleasdale & Co.
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Oppenheimer, Sons & Co., Lim.
Richardson, J., & Co., Lim.
Robinson & Co.
Smith, T. & H., & Co.
Woolley, Sons & Co.
COFFEE
Symington, T., & Co. (Coffee Essence)
White, Fairchild & Co.
COLAPSBL TUBES
Betts & Co.
COMP. MEDICINS
Allen & Hanburys
Blyton, Astley & Co.
Burroughs, Wellcome & Co.
Fuerst Bros.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard & Co.
Richardson, J., & Co., Lim.
CONCENT. LIQRS.
Fletcher, Fletcher & Stevenson
Lloyd, T. Howard & Co
Richardson, J., & Co., Lim.
CONFECTIONERY
Pascall, J. | Smith, Tom
CORN CURES
Pattison, G | Solport Bros.
COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons
CRSHD LINSEED
Mumford, S. G.
DENTIFRICES
Bailey's Toilet Co.
Beecham, T.
Bronnley, H., & Co.
Dorothy Dentifrice Co.
Hanson, O.
Lewsbury & Brown
Lakeman, J. J.
Quelch, H. C.
Ricksecker, Theo.
Sutton, O., & Co.
Thompson & Capper
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)
DENTISTRY
Browning, A. J.
Stevens, P. A.
DISINFECTANTS
Amines Syndicate, Lim.
Barclay & Sons, Lim.
Blyton, Astley & Co.
Brooks, T.
Burroughs, Wellcome & Co.
Calvert, F. C., & Co.
Drysdale, J. W., & Co.
Dussek Bros. & Co.
Fletcher Bros. & Co.
Hebden, W. C.
Government Sanitary Co.
Izal
Jeyes' Sanitary Compounds Co.
Mackey, Mackey & Co.
Mason, C. E., & Co.
May & Baker Lim
National Chemical Co.
Sanitae Co., Lim.
Seabury & Johnson
Tyrer, T., & Co.
DOG MEDICINES
Heald, A. J.
Spratt's Patent, Lim.
DRUGS
Graf, F | Hopf, R.
Richardson, J., & Co., Lim. (Grinders)
DRUGGISTS' SUN.
Ayrton & Saunders
Bailey, M., & Co.
Barclay & Sons, Lim.
Belden, E. & W.
Chemists' Association, Lim.
Currie, W., & Co.
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fawsett, T.
Fordham, W. B., & Sons, Lim.
Fordham & Smith
Gilbertson, H., & Sons
Hatrick & Co., Lim.
Heath Bros.
Hockin, Wilson & Co.
Idris & Co. Lim.
Kay Bros., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Mullerson, H.
Newbery, F., & Sons
Quelch, H. C.
Sanger & Sons | Schutze & Co.
Tidman & Son | Toogood, W.
Tunbridge & Wright
Tyer Rubber Co.
Wood, Vincent | Young, J.

DRYSALTERIES
Browning, J. H., & Co.
Snrton, W., & Sons
DYES, &c.
Ayrton & Saunders
Burton, W., & Sons
Crawshaw & Co
Wells & Richardson Co.
EAU DE COLOGNE
Blondeau & Co.
Farina, J. M.
Hockin, Wilson & Co. (Farina)
Martin, Maria (Nun)
Moenich, Oscar, & Co.
Muhlens, F.
ELECTRICAPPAR.
Darton, F., & Co.
Gent & Co.
EMBROCATION
Day & Sons
ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Sanger & Son
Wood, Vincent
ENGRAVERS
Corsan, J. R.
ESSENCES
Boehm, Fredk.
Boulton, J., & Co. (Lim.)
Brathy & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Idris & Co., Lim.
May & Baker, Lim.
Meadowcroft & Son
Newball & Mason
Eylands, Dan, Lim.
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.
ESSENTIAL OILS
Allen, Stafford, & Sons
Barrett, A. A.
Boehm, Fredk.
Brummerstaedt & Lüders
Bush, W. J., & Co.
Clay, Dod & Co.
Caller, Walker & Co.
Dodge & Olcott
Evans, Sons & Co.
Hodgkinsons, Treacher & Clarke
Lambert, S., & Co.
May & Baker, Lim.
Meadowcroft & Sons
Richards & Bert
Eylands, Dan, Lim.
Sozio & Andrioli
Stevenson & Howell
Symee & Co.
Treatt, R. C.
Warrick Bros.
Witrofsky, E.
Wright, Layman & Umney
ETHER
Duncan, Flockhart & Co.
Howards & Sons
May & Baker, Lim.
Rohblns, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney
EUCALYPTUS
Bickfords | Bosisto's
Evans, Lescher & Webb
Grimwade, Ridley & Co.
Laughland, Mackay & Baker
Mackay, Mackay & Co.
Tasmanian Eucalyptus Oil Co.
Woods & Co.
EXALGINE
Kühn, B.
EXTRACT MEAT
Armour & Co.
Bovril, Lim.
Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Mason, G., & Co., Lim.
Wyeth, J., & Brother
EXTRCTS, FLUID
Allen & Hanburys
Burgoyns, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd T., Howard, & Co.
Moss & Co.
Potter & Clarke
Richardson, J., & Co., Lim.
Wright, Layman & Umney
FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safe)
Chemists' Association, Lim.
Evans, Sons & Co.
Hearn, Wright & Co.
Hockin, Wilson & Co.
Kilner Bros.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Spence & Co.
Surrey Packing Co.
FILTERG PAPERS
H. C. Quelch

FILTERS
Fordham, W. B., & Sons, Lim.
Mawson Filter Co.
Silicated Carbon Filter Co
FOOD (Infants' & Invalid's
Allen & Hanburys
Benger's Food | Brand & Co.
Chibuali, H. B.
Evans, Sons & Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Infantina
King, F., & Co. (Lim.)
Liebig Co. | Lorimer & Co.
Mason, G., & Co. Lim.
Mellin's Food | Nestlé, H.
Ridge, Dr. | Tyrer, P.
Viking Food Co.
Wyeth, J., & Bro.
FORMULA
Brooks, T.
GINGER ALE
Mills, R. M., & Co.
Ross & Sons (Lim.)
GLYCERINE
Blyton, Astley & Co. (Pastilles)
Boehm, F. | Fink & Co.
Fuerst Bros.
Price's Candle Co., Lim.
Watson & Sons
GOUT & RHEUMATIC PILLS
Bromley, C.
Front & Harsant (Blair's)
GRANULAR PREP.
Bishop, A., & Sons
Blyton, Astley & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Richards, J., & Co., Lim.
Wright, Layman & Umney
GUM
Fink & Co. (Arabic, &c.)
HAIR PREP.
Anglo-American Drug Co., Lim.
Chesebrough Co.
Edwards & Co.
Horn, O. E.
Ricksecker, Theo.
Truefitt, H. P., Lim.
HERB BEER EXTS
Newball & Mason
Potter & Clarke
Schmidt, Karl
HOMŒOPATHIC
Keene & Ashwell
Leath & Ross
Thompson & Capper
Watson & Watee
HONEY
Evans, Sons & Co.
May, Roberts & Co.
HYPOPHOSPHITES
Duncan Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Lorimer & Co. | Symes & Co.
Tyrer, T., & Co.
INDIARUB. GOODS
Currie, W., & Co.
Tyer Rubber Co.
INHALERS
Burroughs, Wellcome & Co.
Hockin, Wilson & Co.
Spirone, Co., The
Toogood, W.
INK [See MARKING INKS]
Bewley & Draper
INSECTICIDES
Rocke, Tompsitt & Co.
Steiner & Co.
Stevenson & Howell
KETCHUP
Tyrer, P.
KOLA PREPRTN
Christy, T., & Co.
LARD
Ewen, J., & Sons
LIME JUICE
Evans, Sons & Co.
Lorimer & Co.
LINT
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons
LIQUORICE
Dennis Di Luggo & Co.
"Solazzi"
LITHIA
Fuerst Bros.
LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Davidson & Gray
Gibson, R., & Sons (Manfrs.)
Guest T., & Co.
Hill & Son | Lorimer & Co.
Pascall, J.
Raimes & Co.
Richardson, J., & Co., Lim.
Warrick Bros.
MACHINERY
Bennett, Sons & Shears (Lim.)
Burroughs, Wellcome & Co.
Gardner, W.
Martin Perls & Co.
Ohlson, A. | Pindar J. W.
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bush, W., Son & Co.
Duncan, Fuller & Co.
Evans, Sons & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Washington Chemical Co
MALT EXTRCT, &c.
Allen & Hanburys
Burroughs, Wellcome & Co. (Kepler's)
Glendenning, W.
Hearon, Squire & Francis
Lorimer & Co.
Moss, J., & Co.
Oppenheimer, Sons & Co., Lim.
Raimes & Co.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Co.
MARKING INKS
Bond, John (Crystal Palace) (Ink and Pencils)
MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)
Richardson, J., & Co., Lim.
MENTHOL
Burroughs, Wellcome & Co.
Christy, T., & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Maw S., Son & Thompson
Shirley Bros. | Tyrer, P.
MERCURIALS
Fuerst Bros.
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.
METH. SPIRTS, &c.
Boord & Son | Burrough, J.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.
Warren, A. & J.
METHYLENE
Robbins, J., & Co.
MICROSCOPES
Darton, F., & Co.
MILK
Nestlé, H. (Condensed)
MORPHIA
Macfarlan, J. F., & Co.
Smith, Bertie, & Co.
Smith, T. & H., & Co.
OILS, PAINTS, VARNISHES, &c.
Anglo-American Varnish Co.
Browning, J. H., & Co.
Fox, W., & Sons
Pinchin, Johnson & Co.
OINTMNT BASES
Burgess, E., jun.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Lanoline
Lloyd, T. Howard, & Co.
Richardson, J., & Co. (Leicester), Lim. (Anaspaline)
OPIUM
Bertie-Smith & Co.
Hopf, R.
OPTICIANS
Botwright & Grey
Darton, F., & Co.
OTTO OF ROSE
Fuerst Bros.
Warrick Bros.
Witrofsky, J. E.
OXIDE OF ZINC
Hubbuck, T., & Son, Lim.
PAPAIN
Kühn, B. (Dr. Finkler)
PAT. MEDCNS, &c.
Anglo-Amer. Drug Co., Lim.
Atkinson & Barker (Infant Preserv.)
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Congreve, G. F.
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
Mackenzie, Dr. (Catarrh Cure)
May, Roberts & Co.
Newbery, F., & Sons
Pepper, John, & Co. (Lim.)
Popular Remedies Mfg. Co.
Roberts & Co. (Foreign)
Rocke, Dr., im.
Southall Bros. & Barclay
Sutton, W., & Co.
Wilson, A. (Bunter's Nervine)
Young, J.
PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Fletcher, Fletcher & Stevenson
Kühn, B. | Lorimer & Co.
Newbery, F., & Sons (Inginvin)
Stern, G. & G.
Warner & Co. (Ingluvin)

PEPPERMINT OIL
Bush, W. J., & Co.
Stevenson & Howell
PERFUMERY, FANCY SOAPS
Barclay & Sons, Lim.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F
Blyton, Astley & Co.
Breidenbach & Co.
Brooks, T. (Solid Perfume)
Brummerstaedt & Lüders
Burroughs, Wellcome & Co.
Chemists' Association, Lim.
Chesebrough Co.
Crown Perfumery Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M.
Greensill & Son
Hovenden & Sons
Lanoline | Mulhens, F.
Newbery, F., & Sons (Berdoes
Pears', A & F., Lim.
Potter & Clarke
Price's Patent Candle Co.
Ricksecker, Theo
Sandold & Co.
Sozio & Andrioli
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney
PEROX. OF HYDR.
Burton, W., & Sons
May & Baker, Lim.
Robbins & Co.
PETROLEUM
Allen & Hanburys
Barclay & Sons, Lim.
Dee Oil Co., Lim.
Fuerst Bros. (Jelly)
Hatrick & Co., Lim. (Lucilline)
Snowdon, Sons & Co.
PHARM. PREPS.
Allen & Hanburys
Armour & Co.
Bass Bros.
Barron, Harveys & Co.
Bieber, J. D. | Boehm, Fredk.
Boehringer, C. F., & Sohns
Boulton, J., & Co., Lim.
Bryce & Rumpff
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Giles, Schacht & Co.
Hearon, Squire & Francis
Hewett & Son
Howards & Sons
Jeyes' Sanitary Compounds Co.
Lambert Pharmacal Co.
May & Baker, Lim.
Moss, J., & Co.
Potter & Clark
Richardson, John, & Co. (Leicester), Lim.
Roberts & Co.
Smith, T. & H., & Co.
Southall Bros. & Barclay
Sutton, W., & Co.
Symes & Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, Sons & Co.
Wride Bros.
Wyeth, Jno., & Bro.
Zimmermann, A. & M
PHOTOGRAPHIC
Barclay & Sons, Lim.
Blackfriars Photographic Co.
Boehm, Fredk.
Botwright & Grey
Burroughs, Wellcome & Co.
Darton, F., & Co.
Fuerst Bros.
Howards & Sons (Chemicals)
Kent, G. B., & Sons
Tyrer, T., & Co.
White, Alfred, & Sons
Zimmerman & Co.
PILL MACHINES
Pindar, J. W.
Toogood, W. (Coater)
Werner & Pfleiderer
PILLS (Coated, &c.)
Allen & Hanburys
Anderston Apothecaries' Hall
Beecham, Thomas
Blyton, Astley & Co.
Bromley, C. (Gout & Rheu.)
Burgess, E., jun.
Clay, Dod & Co.
Cox, Arthur H., & Co. (tastless
Davidson & Gray
Dr. Williams
Duncan, Flockhart & Co.
Eade's Gout Pills
Evans, Sons & Co.
Harroline Pill Co.
Hearon, Squire & Francis
Hill, A. S., & Son
Holloway's
Lloyd, T. Howard, & Co.
Lorimer & Co.
McKesson & Robbins
Newbery, F., & Sons
Potter & Sacker
Richardson, J., & Co., Lim.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated)
Wyeth J., & Bro.

PLASTERS
St. Dalmas, A.
Evans, Sons & Co.
Johnson & Johnson
Leslies, Lim.
Seabury & Johnson

POLISHING
Bradley & Bonrdae (Albatum)
Chancellor & Co.
Fordham, W. B., & Sons, Lim.
Oakey, John, & Sons

PORCELAIN GDS
Toogood (E.c. Pots, regist.)

POULTRY FOOD
Spratt's Patent, Lim.

PRINTING
Corsan, J. R. (Gloss)
Ford, Shapland & Co.
Silverlock, H.
Taylor Bros.
Townsend, J.

PUMILINE
Stern, G. & G.

QUININE SALTS
Boehringer, O. F., & Sohne
Howards & Sons
Zimmermann, A. & M.

RECIPES
Brooks, T.

RENNET
Duncan, Flockhart & Co.

RUBBER GOODS
Glover & Sons
Maw, S., Son & Thompson
Tyer Rubber Co.
Victoria Rubber Co.

SACCHARIN
Allen & Hanburys
Burroughs, Wellcome & Co.

SALICIN
Macfarlan & Co.
Smith T. & H., & Co.

SALICYLIC ACID
Burgoyne, Burbidges & Co.
Fuerst Bros. | Kuhn, B.
Zimmermann, A. & M.

SAUCES, PICKLES
Goodall, Backhouse & Co.
Lorimer & Co.
Mason, G., & Co., Lim.
Tyrer, P.

SCIENTIFIC INSTRUMENTS
Darton & Co.
Orme & Co. | Roes & Co.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, Mrs. A. S. (Euxesis)

SCHOOLS, &c.
Central School of Chemistry
City School of Chemistry and Pharmacy, Lim.
Davis, Fredk
Liverpool School of Pharmacy
London Homœopathic and Medical School
Manchester Col. of Pharmacy
Metropolitan Coll. of Pharmcy
Northern School of Pharmacy
School of Pharmacy
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
The School of Pharmacy
Westminster College

SEEDS
Potter & Clarke

SELTZOGENES
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Geraut, E., & Co.
May, Roberts & Co.

SHEEP DIP
Jeyes' Sanitary Compounds Co.
Tomlinson & Hayward

SHOP FITTERS
Bowling & Govier
Bygrave, J. & W.
Evans, Sons & Co.
Howlett, S.
Josepha, F.
Natali & Co.
Poths, H., & Co.

SOAP
Ayrton & Saunders
Barclay & Sons, Lim.
Blondeau et Cie. (Vinolia)
Bronnley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Fordham, W. B., & Sons, Lim.
Jeyes' Sanitary Compounds Co
Martin, Peris & Co.
Muhlens, F.
Pears, A. & F., Lim.
Price, Napoleon, & Co., Lim.
Wright, Layman & Umney

SODIUM PEROXD.
Burton, W., & Sons

SPECTACLES
Botwright & Grey
Darton, F., & Co.

SPONGES
Cresswell Bros. & Schmitz
Evans, Sons & Co.
Peterson, M., & Co.

STAMPS (RUBBER)
Hickisson, J.

STARCH
Chancellor & Co. (Mack's
Critchley (Gloss) (Double)

STOPPERS
Austin & Co. (Sprinklers)
Barnett & Foster | Melin, C.

STOVES
Clark, S., & Co., Lim.

SUGAR
Blyton, Astley & Co.
Fletcher, Fletcher & Stevenson
Gibson, R., & Sons

SUGAR OF MILK
Boehm, Fredk.

SULFONAL
Burroughs, Wellcome & Co
May & Baker, Lim.

SURGICAL
Ayrton & Saunders
Bailey, W. H., & Son
Barclay & Sons, Lim.
Cocking, J. T.
Eschmann Bros. & Walsh
Glover & Son
Haywood, J. H.
Krohne & Sesemann
Lee, J. Ellwood (Hatrick & Co., Lim.)
Liverpool Patent Lint Co.
Macfarlan, J. F., & Co.
Maw, S., Son & Thompson
Powell & Barstow
Quelch, H. C.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Sons
Schutze, F., & Co.
Tyer Rubber Co.
Victoria Rubber Co.
Wood, Vincent

SYPHONS
Barnett & Foster
Bratby & Hinchliffe, Lim.
Fordham, W. B., & Sons, Lim.
Idris & Co., Lim.
Kilner Bros. | Melin, C.

SYRUPS
Blyton, Astley & Co.
Fletcher, Fletcher & Stevenson
Idris & Co., Lim. [(Liquors)

TABLETS
Blyton, Astley & Co. (Sulphur)
Corsan, J. R. (Advertising)
Richardson, J., & Co., Lim. (Compressed)

TEA
Gt. Tower St. Tea Co.
Pearce & Meeking

TEETHING PADS
Marriott, E., & Co.

THERMOMETERS
Bailey, W. H., & Son
Barclay & Sons, Lim.
Darton, F., & Co.
Evans, Sons & Co.
Hicks, J. J.
Newbery, F., & Sons
Perken, Son & Rayment

TINCTURES
Bieber, J. D.
Evans, Sons & Co.
Hewlett, C. J., & Son

TINS & CANISTRS
Gilbert, J. A., & Co.

TOBACCO
Singleton & Cole (Lim.)

TOILET
Allen & Hanburys (Chrisma)
Burroughs, Wellcome & Co.
Dee Oil Co., Lim. [(Lanoline)
Horn, O. E.
Hovenden & Sons
Lorimer & Co.
Quelch, H. O.
Ricksecker, Theo.
Truefitt, H. P., Lim.

TOOTH BRUSHES
Maw, S., Son & Thompson

TOOTH PASTE
Anglo-American Drug Co., Lim.
Beecham, T.
Jewsbury & Brown
Sutton, O., & Co. (Block)
Wilson, A. (Bunter's)
Woods, M. (Areca)

TRADE MARKS
Browne, T. B.

TRUSSES
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Tea Toning Tablets to remove the astringent and bitter taste of tea without injuring the flavour, and thus avoid indigestion. (See Pamphlet.)

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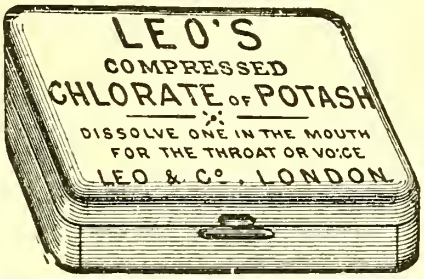

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THE OXIDISING AGENTS—Iron and Manganese;

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NOTICE—CAUTION.

The success of Fellows' Syrup of Hypophosphites has tempted certain persons to offer imitations of it for sale. Mr. Fellows, who has examined samples of several of these, FINDS THAT NO TWO OF THEM ARE IDENTICAL, and that all of them differ from the original in composition, in freedom from acid reaction, in susceptibility to the effects of oxygen when exposed to light or heat, IN THE PROPERTY OF RETAINING THE STRYCHNINE IN SOLUTION, and in the medicinal effects.

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A cardiac tonic indicated in functional disorders of the heart, especially in palpitation arising from reflex irritation in dyspepsia and in the milder forms of angina pectoris.

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Free from the nauseating taste of the corresponding Liquor of the Pharmacopœia. It remains bright when diluted with water in any proportion.

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Identical in strength with the official liquid extract, from which it differs by mixing bright with water, wine, or syrup.

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Solid and Liquid. Keeps perfectly, and possesses the characteristic flavour of malt.

INFANTS' FOOD MALTED.
Supplied in bulk, and in tins with plain labels.

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Contains 1¼ per cent. of Emetine, and gives with detannated Sherry a Vinum Ipecac. that is *bright, stable*, and uniformly *active*.

PEPSIN GLYCER. ACID.
A strong solution of peptic principles of definite strength; a stable and digestive fluid of great activity.

SOL. PEPSIN c. EUONYMIN.
A biliary stimulant and digestive agent of pronounced efficacy.

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THE CHEMIST AND DRUGGIST

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AS AN OFFICIAL JOURNAL
THE CHEMIST AND DRUGGIST is supplied regularly to every member of the following Societies:—PHARMACEUTICAL SOCIETY OF IRELAND, SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION, MIDLAND PHARMACEUTICAL ASSOCIATION OF NEW ZEALAND, CENTRAL ASSOCIATION OF NEW ZEALAND, OTAGO PHARMACEUTICAL ASSOCIATION, PHARMACEUTICAL SOCIETY OF QUEENSLAND, PHARMACEUTICAL SOCIETY OF SOUTH AUSTRALIA, PHARMACEUTICAL SOCIETY OF WESTERN AUSTRALIA, and TASMANIAN PHARMACEUTICAL SOCIETY.

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VOL. XLIII.

THE present number concludes our forty-third volume, and for the benefit of all who are wise enough to preserve and bind the journals we present with this issue a complete index for July–December, 1893. It will be noted that the volume contains 940 pages, and that for January–June 880 pages—*i.e.*, 1,820 pages in the course of the year. When we say that this is more pages than in any other journal in the world connected with pharmacy, we hope nobody will suppose we are boasting. It looks as if we gave too much for the money; nearly 2,000 pages of literary matter and a 500-page DIARY for 10*s.*! Of course it is. The ten shillings are a mere dot on the cost of production. If our subscribers were not as much attached to the advertisement pages as to the literary they would require to pay between 30*s.* and 40*s.* annually. We close the year well—stronger in subscribers, stronger in influence, and stronger in the determination to keep up to the standard which has made THE CHEMIST AND DRUGGIST what it is—a leader—*the* leader of drug-trade journals.

TO BEGIN THE YEAR.

WE question if any firm or business man who has dealings with those for whom this journal caters can begin the year better than by putting themselves on a good footing with the trade. We offer them a splendid opportunity in our Winter Issue of January 27, 1894. We can insert specially-printed circulars or price-lists in that issue, 11,000 being the number to cover the circulation. Put your best ideas in shape, and select your best prices for presentation to the trade. The Publisher will give any advice in the matter which he can to assist you in starting the year well.

THE DIARY COUPON.

Home subscribers will please note that the coupons sent out with all the diaries should be returned before Monday next. They should, therefore, fill them in at once or delegate the duty to someone in their pharmacy or family.

Summary.

TWO chemists' assistants have died at St. Leonards through taking too much morphia.

WE reprint an amusing article on a proving of Hashish by the popular humourist "Luke Sharp."

THE Glasgow Pharmaceutical Society have indulged in a futile discussion on a code of pharmaceutical ethics.

FURTHER information regarding the progress of pharmaceutical legislation in New South Wales in contained in our Australian Notes.

IN an illustrated note on page 919 we give some biographical facts regarding members of the German Reichstag who are connected with the chemical industry.

A SUPPLY-STORE in the Isle of Wight has been fined for selling weak sal volatile. The defence advanced was that the ammonia had been dissipated by hot weather.

THE French Academy of Medicine has passed a new resolution regarding the sale of mineral waters, and one on the regulations for the sale of proprietary medicines.

IN our Bankruptcy column we give particulars of the transactions of the Anticuta Syndicate Company, which is insolvent and in which a number of drug-trade houses are interested.

WE publish in this issue our half-yearly Index, in which will be found, in alphabetical order, the contents of THE CHEMIST AND DRUGGIST, from July to December inclusive.

WE regret to report the death on Christmas Eve of Emeritus Professor Bentley, who was, perhaps, one of the best known teachers of pharmaceutical botany in the world.

A GROCER in County Tipperary has been fined for the illegal sale of oxalic acid. He had previously been proceeded against on two occasions for the same offence without success.

WE print the names of the persons who have been successful in passing the associateship examination of the Institute of Chemistry held in London, Glasgow and Edinburgh this month.

THE year's work in pharmacy is fully reviewed in our Editorial columns, and to it we add an article dealing with the trade of 1893, in which the more important commercial movements are criticised.

AN action against a Birmingham chemist for the sale of weak spirit of nitrous ether has been dismissed, on the ground that the summons stated the sample to be deficient in ethyl nitrate instead of ethyl nitrite.

AT the last meeting of the Chemical Society Professor Dunstan communicated particulars of a research on the Benzoyldoximes; and in the course of a paper on the interaction of acid chlorides and nitrates, Professor Armstrong advanced the opinion that the constitution of nitric acid is represented by $H_2O.N_2O_5$, rather than HNO_3.

THE question of the sale of poisons by chemists' apprentices has been raised in Ipswich, where a woman having committed suicide with white precipitate, the coroner directed the jury's attention to the fact that the poison was sold by an apprentice. The sale is denied by the apprentice, and his master, the mayor of the town, stated that it was contrary to rule for the apprentice to hand over such articles. The enquiry has been adjourned.

WE print a number of interesting letters in our correspondence section. Mr. Kingzett expresses his views on the carbolic-acid question, and as to the active principle of eucalyptus-oil. On the latter subject we also print a letter from a colonial correspondent, Mr. Gould, of Hobart. The price of alkaram is the subject of a note from Messrs. F. Newbery & Sons, and Mr. Percy Collingwood appears as a pure-water advocate. In addition to editorial replies to correspondents a few subscribers supply some useful pieces of information.

English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Wishes to be Registered.

The *Bradford Daily Argus* mentions that Mr. T. G. Forshaw, who was for twenty-six years dispenser to the Bradford Infirmary, and held a similar position in the Macclesfield, North Staffordshire, and Stockport Infirmaries for an almost equal length of time before coming to Bradford, having before that period been in business as a druggist at Brindley Ford, Staffordshire, has applied to the Registrar of the Pharmaceutical Society to be registered as a chemist and druggist. The application is backed by Lord Masham, Mr. R. H. Meade, J.P., the *doyen* of the medical profession in Bradford, Dr. R. G. Alexander, M.A., Dr. Rabagliati, M.A., Mr. Rimmington, the borough analyst, and others.

An Assistant in Trouble.

At Harlesden Police Court, last week, Charles Fewings, 24, chemist's assistant, 2 Chippenham Road, Paddington, was charged, along with another, with being concerned together in stealing from 52 Craven Park, Willesden, two trunks, two overcoats, two suits of clothes, twenty-one shirts, thirty handkerchiefs, a half-bottle of wine, a quantity of socks, shoes, &c., value 16*l.*, the property of Paul F. W. Winkler, a young German. Mr. Culvert, barrister, prosecuted, and asked for a remand, which was granted.

Institute of Chemistry Examinations.

At the examination for the associateship held from Monday to Thursday, December 11 to 14, in the new Laboratories at 30 Bloomsbury Square, the following passed:—E. A. Andrews (Mason College, Birmingham), G. E. Brown (Mason College, Birmingham), R. M. Craven (University College, Nottingham), R. P. Charles (King's College, London), P. H. Kirkaldy (King's College, Strand), C. A. Mitchell (King's College, London), H. B. Stocks (University College, Liverpool), H. Tate (Royal University, Ireland), W. H. Willcox (University College, Nottingham), S. B. Wright (Student under E. G. Clayton, F.I.C., and King's College, Strand), and H. S. Young (King's College, London).

Of candidates examined in Dublin the following passed:—W. S. Barratt, Thomas Byrne, P. M. Davies, H. E. Ivatts, and C. McMullan (all trained at the Royal College of Science, Dublin).

Of candidates examined in Glasgow, the following passed:—Thomas Chambers (Yorks College, Leeds, and Glasgow and West of Scotland Technical College), H. Findlay, R. Fulton, junior, W. Hannah, F. W. McKillop (each of Glasgow and West of Scotland Technical College), and N. McCulloch (Glasgow).

Poisoned by Glacial Acetic Acid.

A child of 15 months died at Halifax last week from the corrosive effects of glacial acetic acid, a tiny bottle of which had been momentarily placed within its reach. Medical treatment was of no avail.

Poisoned with Prussic Acid.

An inquest was held by the Westminster coroner on Friday, December 22, regarding the death of Mr. Wentworth Francis Dean Paul, 23, second son of Sir Edward John Dean Paul, Bart., of 7 St. George's Place, Hyde Park Corner, and Cambridge House, Twickenham, who had been found dead in the Bath Hotel, Arlington Street. Deceased was a well-known coaching-man, and had run a coach at Chicago between the City and the World's Fair. This speculation had proved a failure, and deceased was greatly depressed in consequence. Evidence was given to show that he had taken prussic acid, and the coroner's officer produced a phial so labelled. Mr. Barnes, pharmaceutical chemist, Knightsbridge, deposed to selling deceased half an ounce of prussic acid, on a doctor's order, for the purpose of poisoning a dog. Dr. Fam, of 42 Montpelier Street, said he gave the deceased the order, believing his statement that he wanted to put an old favourite hound out of the way. Other evidence was given, and the jury returned a verdict of "Suicide while temporarily insane.'

Deaths from Chloroform.

At an inquest in Birmingham regarding the death of a lad from chloroform narcosis, while some of his teeth were being extracted, the coroner told the jury that out of 7,000 cases of the administration of chloroform there were only two deaths.

A Chemist in Want.

At the Wrexham Magistrates' Court on Wednesday, December 20 Thomas W. Preston, who said he had been a chemist and druggist, was charged with begging. The Magistrates discharged him as he was reported to be civil.

Bacteriology Lectures.

Two courses of lectures on Bacteriology will commence at King's College, Strand, W.C., on Monday, January 22. The courses of instruction comprise lectures and practical work. The lectures will be illustrated by lantern-slides, diagrams, morbid specimens, and microscopical preparations. In the practical work, the students will examine, stain, and mount examples of the various micro-organisms from cultures and in tissue sections. One course, on (*a*) General Bacteriology, is held on Monday evenings, and the other (*b*), on the Bacteriology of Fermentation, is held on Wednesday evenings. They are suitable for pharmaceutical students, who can obtain particulars from Dr. R. T. Hewlett, the demonstrator.

Vermin-killer from Oil Shops.

On Monday, Dr. G. Danford Thomas held an inquest a Hampstead, on the body of Mary Ingham, aged 21, a domestic servant who had taken sixpennyworth of mouse poison, and died in Hampstead Home Hospital. The Jury returned a verdict of suicide whilst of unsound mind, and added a rider expressing their opinion that regulations should be adopted to diminish the ease with which strychnine can now be obtained at oil shops.

Oxalic Acid as a Dentifrice.

Mr. Reuben Legg, bootmaker, made a joke, and in consequence spent Sunday and Christmas Day in a police-station. On Saturday night he told his son to fetch some ale, and having given this order he picked up a glass of oxalic acid and put it to his lips. This, it appears, was "only his fun," but his family regarded it in another light and sent for a doctor and a policeman. Reuben explained to the magistrate at the Marylebone Police Court, that he had often used the acid as a dentifrice. But his hopes of pardon were blighted, for his Worship characterised the joke as an exceedingly bad one, and bound him over in 5*l.* to keep the peace.

Oxalic-acid Poisoning.

At Kidderminster on Saturday an inquest was held regarding the death of Edward James Goodwin (34), who committed suicide about 10 o'clock the same morning by taking oxalic acid, which he had purchased from Mr. B. W. Willis, chemist, for cleaning brass.

Alleged Criminal Assault in a Pharmacy.

At Clerkenwell, on Saturday, William Simcock, 18, a chemist's assistant, of 2 Penton Street, Clerkenwell, and Walter Worsdale, 21, a bookmaker's clerk, were charged on remand before Mr. Bros with criminally assaulting Kate Hayden, age 22. The prosecutrix stated that on December 6, she was walking along Penton Street, and having a headache, went into a chemist's shop kept by Simcock's father. The two prisoners were behind the counter, and she asked for a draught to cure her headache. Simcock mixed something in a glass which she drank, and he then invited her behind the counter to sit on a chair. A few minutes afterwards she complained of feeling drowsy, and Worsdale put his arm round her waist, kissed her, and said, "You will be all right directly." He then pulled her on to the floor and she screamed, but Simcock, she alleged, put his hand over her mouth while Worsdale criminally assaulted her. She left the shop, and the next day complained to the police.

The complainant was subjected to a long cross-examination, and during her evidence fainted twice.

The prisoners were committed for trial.

Sale of White Precipitate by Apprentices.

There was an inquest at Ipswich on Saturday regarding the death of a woman, aged 39, who had poisoned herself with a pennyworth of white precipitate, which she had sent her little boy for to the pharmacy of Mr. Anness, the Mayor. In opening the inquiry, the Coroner explained to the jury the regulations as to the sale of poisons, and said that "white precipitate" belonged to the second part of the poisons schedule. Any unregistered assistant of a chemist who sold this class of poisons was liable to a penalty, notwithstanding that he effected the sale on behalf of a master who was duly registered. One learned Judge, in giving his decision, had said the whole object of the Act, which was to guard the public as far as possible from the disastrous consequences sometimes arising from the sale of poisons by persons inadequately acquainted with their baneful results, would be frittered away should unqualified assistants be allowed to sell poisons. Such assistants, in selling poisons, must act under the direct personal superintendence of a qualified employer or qualified assistant; and by "personal superintendence" was meant not merely presence in the shop, but real personal superintendence.

The deceased woman's little boy deposed that he purchased the powder from a young man, whom he identified as the apprentice of Mr. Anness.

The apprentice had no recollection of serving the boy.

Mr. Anness said his apprentice was ordered, in the case of any person applying for poison of any sort, to refer the person to him or his son, who was qualified, and if the apprentice had sold poison directly he had disobeyed orders. The lad frequently called him or his son out from breakfast to hand a packet to a customer. These packets, however, were sold by chemists generally, to all sorts of persons, frequently to children sent by their mothers, chemists being under no restriction as to age in the matter, and the preparation being a common one for cleansing the hair. If the assistant had handed him the packet, he should have sold it to the boy, and he could not say he had not done so, although he had no recollection of the event—these sales were of such common occurrence.

The inquiry was adjourned for a post-mortem examination of the body.

The Long Sleep.

Albert Jasper Baker and Frank Stower, chemists' assistants, took morphia at a house in Havelock Road, St. Leonards, on Wednesday morning. They called the landlady and told her they had taken enough morphia to make them sleep all day. She advised them to take an emetic, but they did not do so. At 2 o'clock she passed the bedroom door and heard them breathing heavily. At 4 30 she went again, and, not hearing anything, opened the door and found the men unconscious. Medical aid was called in, but life was extinct.

Irish News.

Ulster Pharmaceutical Association.

A representative general meeting of this newly-formed Association, convened by advertisements and circulars to every pharmaceutical chemist in Ulster, was held on December 21, in Garfield Chambers, Royal Avenue, Belfast. Mr. William Prott, M.P.S.I., M.P.S.G.B., occupied the chair. The Chairman, after thanking the meeting for placing him in that position, referred to a similar organisation which was in existence in Belfast a number of years ago, and dwelt on the advantages to be derived from the Association, and prophesied a brilliant future for this Society.

The minutes of a previous preliminary meeting were read by the *pro tem.* Secretary, and confirmed. A number of rules were submitted, which, with one exception, were passed after undergoing slight alterations. Rule 3 gave rise to considerable discussion. In its original form—proposed by Mr. William White, seconded by Mr. David W. Elliott—it read thus: "That members of this Association must be licentiates of the Pharmaceutical Society of Ireland; and associates must be either registered druggists, or assistants, or apprentices to registered druggists or pharmaceutical chemists." A letter was read from Mr. W. H. Madden, M.P.S.I. (who was unable to be present), in favour of the admission of registered druggists to the Association. An amendment to this proposed rule was moved by Mr. William Burns, seconded by Mr. George W. Camlin, and passed by a majority of exactly two to one, restricting the membership and associateship to pharmaceutical chemists and their assistants and apprentices. The other rules passed named the organisation "The Ulster Pharmaceutical Association," and declared its objects to be "the intellectual improvement of its members and associates by means of lectures, essays, investigations and discussions of subjects touching on materia medica, chemistry, science, and literature." Members only are to vote. The annual subscription is to be:—Members in business on their own account, 10*s.* 6*d.*; assistants, whether members or associates, 5*s.*; apprentices 2*s.* 6*d.* The meetings of the Association are to be held on the third Thursday of each month. The following gentlemen were elected on the Board of Management for the ensuing year:—President, Mr. Andrew McNaught, M.P.S.I., M.P.S.G.B.; Vice-President, Mr. William Prott, M.P.S.I., M.P.S.G.B.; Secretary, Mr. William White, M.P.S.I.; Treasurer, Mr. Charles Nesbitt, M.P.S.I.; Committee, Messrs. Johnston Montgomery, M.C.P.S.I., P. I. Lyons, M.C.P.S.I., Charles F. Weir, M.P.S.I., David W. Elliott, M.P.S.I., Samuel M. Martin, M.P.S.I., William Burns, M.P.S.I.

The first ordinary meeting will be held on January 18, 1894. Due notice of the subject occupying the evening will be given to all members and associates. Persons desirous of joining the Association should communicate with any member of the Board of Management, or with the Secretary, 24 Twickenham Street, Belfast.

French Pharmaceutical News.

(From our Paris Correspondent.)

THE REWARD OF DILIGENCE.—An example of the success attending diligent, hard work was given on Wednesday, December 20, at the Paris Academy of Medicine, when M. Laurent Lafay was granted his degree as Doctor of that Society. M. Lafay was born in St. Julien de Civry, a small village in the Saône and Loire Department, thirty years ago of humble parentage, and having a predilection for study he managed, in spite of exceedingly narrow means, to pursue his work in that direction. Choosing pharmacy as a profession, he came to Paris to study, and at an early age became "Laureat" at the School of Pharmacy here, where he is at present a demonstrator; and, as a hospital pharmacist last year, he obtained the gold medal. M. Lafay still intends to confine himself to pharmacy.

MINERAL WATERS.—At the weekly meeting of the Academy of Medicine on Tuesday, December 26, M. Proutt made the following proposition in the name of the commission for the control of mineral waters: "Henceforth the Academy will give its authorisation for mineral waters by the following formula:—The Academy declares that as a result of a declaration by the service connected with mineral-water wells the composition of the present water is such that its sale may be authorised; the Academy is not competent to decide any other question connected therewith. It moreover declares that any change in the quality of the water, &c., will render the present notice void. The Academy expressly states that the labels and circulars issued in connection with this water shall not bear the mention authorised or approved by the Academy of Medicine or any similar mention." The proposal was adopted.

FRENCH SECRET REMEDIES.—Amongst the remedies or pharmaceutical preparations recently submitted by the Minister of the Interior for the official approbation of the Academy of Medicine was one which, having been adopted for the army and navy, besides being praised by the faculty, seemed to satisfy the academical scrutiny. M. Lereboullet spoke in support of this particular remedy at the meeting of

the society in question last Tuesday. He said that either the Commission on Secret and New Remedies should be suppressed, or the members should be able to recognise the exactness and value of testimonials furnished with such remedies. "But," cried M. Jüngfleisch, "the Academy has approved nothing for ten years past." M. Riche, in supporting the statement, said it would be a very serious matter to recommend any special pharmaceutical speciality. The Secretary of the Academy suggested that the matter should, in view of its importance, be referred to the special commission charged with preparing a report on secret and new remedies. This was agreed to.

A SORCERER IN THE POLICE COURT.—The credulity still prevailing amongst certain of the French peasantry has just been exemplified at Gannat, Allier, where a man has been prosecuted for sorcery. The defendant, a malicious-looking little fellow of about one-and-twenty, was charged with swindling, illegal practice of medicine, and the illegal sale of French Codex preparations. He obtained considerable influence over a number of the country people. Two of his victims, named Jalligaud, husband and wife, imagined that they were persecuted of the devil and near death. Bernard commenced by making them take drugs, by which they nearly met their deaths. Then they were given a talisman, which was placed in a cupboard, and had to remain untouched. This precious charm consisted of a small leather bag containing a Catholic prayer-book, bits of candle, a pot of lard, and a variety of other articles. The sorcerer managed to extort a sum of 1,651f. (66*l.*) from these people, threatening otherwise to "render them drier than a log of wood." Another witness, suffering from an affection of the nose, paid him 13f. for a little lard. A number of people gave evidence to the effect that the defendant had sold them drugs, medicaments, or remedies in great variety. In spite of his denials, Bernard was condemned to six months' imprisonment and to pay a fine of 500f. (20*l.*).

ON PHARMACY.—In the French retail trade the New Year takes the place of Christmas, and consequently the greatest stress of business during the twelve months occurs within the last few days of the year. This refers, of course, to general traders, for the French pharmacists are not participators in the rush of trade when everyone else it busy; it is *infra dig.* Some of the large new so-called commercial pharmacies in Paris try, however, by a display of perfumes and other tempting articles to catch the would-be makers of presents. But as a rule members of the trade are not particularly disposed to push their connection by advertisements during the festive season; the most enterprising of them seem to do no more than issue a small calendar card for gratuitous distribution. A story recently told by a young French lady, who has lately returned from England, illustrates perhaps as well as anything the difference between English and French country pharmacies. She was in a village, in one of the home counties, with some friends, when suddenly one of them proposed a visit to the chemist's shop. "What for you go there?" she said. "You are ill?" The English girls laughed loudly at this query, but explained that they merely wanted to buy an electroplated fish-knife as a wedding-present. Their French companion could never be brought, however, to understand such an extraordinary state of things, and she relates the circumstance as a great novelty.

Foreign and Colonial News.

MADRAS CHEMISTS IN TROUBLE.—The Government officers have made a raid upon several of the large chemists and druggists of Madras for selling to the public rectified spirit without a license. The chemists plead privilege, and allege that they sold the spirit for medicinal purposes. Samples of the spirit exposed for sale have been taken and forwarded to the chemical examiner for a report as to whether they are pure or methylated, and on receipt of his reply, a decision will be come to regarding prosecution.

THE APOTHEKER AND THE DISINFECTANT.—A traveller walked into a pharmacy at Speyer and tried to obtain from the proprietor an order for a new disinfectant called "Saprol." The haughty apotheker disdainfully scorned the proffered wares, and with mocking words declared that pharmacists should esteem themselves too highly to sell goods such as his—mostly swindles. The traveller, bottling up the ire rising within him, mildly referred to the testimonials of "acknowledged authorities" who spoke well of "Saprol," and drew forth a supply of such laudatory documents from his wallet. Whereupon the apotheker insinuated that 4*l.* was a good market price for a disinfectant testimonial, that the signatories of documents in question might go down all right with the swinish multitude, but that to him, a pharmacist, no testimonial would carry weight unless signed by such a "genuine authority as Pettenkofer or Koch" (*sic*). Then the traveller's insult-bearing capacity was strained to breaking-point, and he went off muttering vengeance. In due time his principal sued the apotheker for insult, but was non-suited in the first case, although on appeal the decision of the lower court has been reversed and the pharmacist sentenced to a fine of 20*s.* and costs.

DOCTORING IN CHINA TOWN.—A correspondent of the *Daily Chronicle*, describing a visit he has paid to "China Town," in San Francisco, has this to say about the drug-shops in that quarter:—"My guide, a detective in plain clothes, enters a native drug-shop. No notice is taken of us. We open drawers and handle the 'remedies'—a dried toad squashed flat, a bundle of dried locusts, dried worms, snakes, beetles, reptiles, aromatic herbs. The prescriptions are made up in bundles, and are subject to severe analysis. If, for instance, you put in squashed frog instead of parched grasshopper, or boiled owl's liver, you are liable to heavy fine, or your store may be confiscated. The Chinese have implicit faith in their doctors. A very celebrated one is just dead. His advice was often sought by people suffering from what civilised medical experts pronounced incurable, but which yielded to the treatment of the 'heathen Chinee.' One well-authenticated case of obstinate ulcer I heard of, which had defied all the best American doctors, when the patient, although quite sceptical, was induced to consult the great Chinese Francisco medicine-man, who gravely ordered a variety of fomentations and doses of incredible nastiness; but the ulcer yielded in a few weeks, and disappeared completely in a month."

MEDICINAL HERBS IN GERMANY.—The principal centres of the cultivation of medicinal herbs in Germany are found in Thuringia (Kölleda, Jena-Lobnitz, Jena and Erfurt), near Scheeberg in the Saxon Erzgebirge, and around Schweinfurt, Nuremburg and Bamberg. The present area of the cultures is as follows:—Near Kölleda about 85 acres are under peppermint (*Mentha Piperita*), which gives an average yield of about 50 tons, worth about 2.200*l.* About 75 acres are under spearmint (*Mentha crispa*), 88 acres under angelica (crop 75 tons, value 350*l.*), 155 acres under valerian (*V. officinalis*), yield 150 tons, value about 1,750*l.*; 45 acres under levisticum, yielding about 25 tons of root. The chief product of the Nuremburg and Schweinfurt cultures is althæa-root, of which about 15 tons are harvested yearly, and a very large quantity of minor "pharmaceutical herbs," such as sage, peppermint, spearmint, liquorice, wormwood, calamus, marjoram (the last-named largely used in sausage-making), mallow-flowers for dyeing, melissa, mignonette, &c. Tarragon is much grown for use in vinegar-making. The culture of so-called perennials is laborious, and requires much preliminary care, such as preparation of boxes (partly glass-covered), fresh manuring, and the admixture of fine forest soil. Most of the plants must be raised in nurseries, but may be planted out in the open in the same year.

MORE ABOUT PARACELSUS.—The recent celebration of the quarcentenary of Paracelsus' birth has evoked a number of more or less new and authentic anecdotes concerning the famous chemist, of whose career we gave a brief sketch in a recent issue. On account of Paracelsus' wandering habits it is almost impossible to trace his career in proper sequence. The period of his life which is best known is that from 1526, when, owing to the influence exerted on his behalf by Oecolampadius, he was appointed City-Physician and Professor of Medicine in Basel. Paracelsus was a ruthless reformer to whom old customs, unless founded upon common-sense, were abominations; hence his constant quarrels with his fellow-academicians. He gave his lessons in the

German vernacular and was a determined enemy of Galenism and Arabism, up to then paramount in medicine. Paracelsus did much to simplify the composition of remedies, and to introduce simple chemical bodies into therapy. In his personal habits Paracelsus was exceedingly simple. He refused to wear the red official costume of physicians and professors, and consistently employed the German language (often an exceedingly plain variety of it), instead of the dog-latin of his contemporaries. As city-physician, he insisted upon the strict inspection of pharmacies, thereby rendering himself exceedingly unpopular with the pharmaceutical craft, so much so that insulting doggerel and other lampoons directed against him were frequently posted up in Basel Market-place by his enemies. The cause of his leaving the city was the result of an action brought by him in 1528 against a powerful prelate who had promised him a fee of 100 florins to be cured of an ailment. Paracelsus effected a cure by means of three opium pills, for which the Church dignitary refused to pay more than the official tariff of six florins. The City Council found against Paracelsus, who at once left the city. First he went to Esslingen, where his family owned a house, which is said to be still standing. Then he wandered for ten years throughout Southern Germany and Austria, and finally died at Salzburg in the Tyrol. Paracelsus has been reported to have been the author of 364 treatises, of which, however, only a portion was ever printed. Many of the works ascribed to him are probably spurious. The largest collection of his works is in the Museum at Salzburg.

AUSTRALASIAN NOTES.

THE following notes on Australasian pharmaceutical matters are based upon information contained in the November issue of the *Chemist and Druggist of Australasia*:—

A SUBJECT CLOSE AT HEART.—Among the three subjects for essays from which candidates for the last pharmaceutical preliminary examination in Queensland were allowed a choice one was "The causes of the Banking Crisis." The paper was not to occupy more than two pages.

THE QUEENSLAND GOVERNMENT BOTANIST.—We have already reported that the Queensland Government, along with other economisings in the national household expenses, have abolished the post of Government botanist, hitherto held by Mr. F. M. Bailey, a distinguished scientist, who is very popular in the Colony. Mr. Bailey's friends have petitioned Parliament, asking that his services should be retained, but the petition was moved out of order by the Premier, Sir Thomas MIelwraith. Pharmacists have been the backbone of the petition movement, and the Secretary of the Pharmaceutical Society spent a day and a half in obtaining signatures from business and city men.

THE THIRTEEN ERUDITE PHARMACISTS.—The letter which the thirteen Ballarat pharmacists have addressed to the Victorian Pharmacy Board, and to which we referred a fortnight ago, runs as follows:—

We, the undersigned pharmaceutical chemists of the city of Ballarat, do hereby respectfully beg to draw your attention to a very important judicial decision respecting "Unlicensed Medicine Vendors," given by Mr. Justice Hood in the Supreme Court, Melbourne, September 26, 1893, and we beg to inform you that the same thing (*sic!*) is being done daily by unlicensed persons in Ballarat, such as storekeepers, women, herbalists; and we venture to think that it is your duty to immediately put the law in force to stop such illegal business proceedings, the same being detrimental to us as a duly qualified body of chemists.

The diction of the document is hardly up to the standard one would expect in an epistle signed by thirteen pharmaceutical chemists, and flavours strongly of that famous sentence (placed in the mouth of a well-known judge), beginning "Prisoner at the Bar! You were born of honest parents, you were the pride of your mother, you were given a careful education, instead of which you go about the country stealing ducks!"

MEDICINAL PLANTS IN THE QUEENSLAND STATE NURSERIES.—Reports from the overseers of the Queensland State nurseries, on the subject of economic cultures, state that at the Kamarunga State nursery a Wardian case of cacao beans was received during September from Ceylon. All, or nearly all, had germinated in transit, and most of them perished. Lemon grass (*Andropogon Schœnanthus*) has been grown, and it is said that no grass of any kind does better in the nursery. It forms great tussocks rising high above the ground and completely covering it. It is as handsome as an ornamental tussock grass, but it has not seeded. When cut down it soon springs up. A small quantity was sent to a local chemist, who extracted what he called "a good essential oil." If a market could be found for the grass in a dry state, large quantities could be grown at a trifling cost. It is multiplied by roots. The kola nut has been introduced, but is not hardy. Eighteen plants are still alive in different situations of the nursery. The true cinnamon grows and flourishes, but there are only four trees in the grounds. It can be grown from cuttings. One rooted cutting has been taken to New Guinea and planted there. The cleaning of the loofah for sponges has been tried. The kind operated upon was the common luffa of Chinese gardens, which never exceeds a foot in length. An attempt is to be made to get seeds of a longer variety.

THE NEW SOUTH WALES PHARMACY BILL, according to the latest mail information to hand, is still lying in a water logged condition outside the Parliamentary baven, waiting for the Government pilot boat to take it along to a safe mooring. Professor Anderson Stuart, the Colonial Medical Adviser, is acting as the go-between of the Government and the chemists. The chemists are anxious that progress shall be made with the measure, and at the meeting of the New South Wales Pharmaceutical Society on October 17 Mr. Bellemey urged that "something should be done" to get the Government to introduce the measure into the Upper House. It was agreed to depute one of the members to jog the elbow of the Under Secretary to the Treasury. There has been some hitch on the question of the constitution of the reformed Pharmacy Board. The Government proposed to reduce by four the number of pharmaceutical representatives upon that body, and to allot these four seats to the President of the Medical Board, the Government Medical Adviser, and representatives of the Education Department and Sydney University. The proposal took the chemists somewhat by surprise, and they refused to fall in with it, but ultimately agreed to the medical adviser of the Government and a University representative holding seats for the first three years, after which their only associate was to be the medical adviser to the Government, who is a member of the Board by virtue of his office. It is the intention of the "pharmacists"—as they are to be styled in the Bill—to do all in their power to prevent the intrusion of outside influence in the management of their affairs, and if the Government does not fall in with their suggestion they will try to get the Bill amended in Parliament.

CORONIAL ANALYSIS.—There is a vein of rough-and-readiness in the methods of the Auckland coroner which must endear that gentlemen to the practical jokers of the town, though witnesses in his court may be excused for jibbing a bit at the luminary's fun. The other day this worthy functionary sat professionally upon the body of one Alexander Gillespie, in life an assistant to "Dr. Neil," herbalist. Poor Alexander was to have been married on the day when his body was made the occasion for a coroner's holiday, but on the night before his wedding he overdosed himself with morphia, a drug he had been in the habit of taking for insomnia. When found a corpse on what was to have been his wedding morn, there was by the dead man's bedside a bottle containing a mixture of a simple syrup, together with bay berry (*pinus canadensis*), hemlock, ginger, and chillies, but no morphia, or other narcotic, and also a glass. There was a white crystalline deposit at the bottom of the glass, and the coroner, according to the report in the local papers, set himself to unravel the problem of the identity of these crystals by dipping his pen to the bottom of the glass and telling the first witness, Jonathan Wheeler, a fellow-*employé*, to put out his tongue. Jonathan obeyed the order "with reluctance," and the coroner touched the end of his pen on the tongue. The witness promptly expectorated several times, and when he did speak, said the taste in his mouth was bitter and dry. The coroner himself then put his tongue to a paper, which had been found on the chair under the glass and had evidently contained a powder, and said it had a bitter taste. Medical evidence showed that the deceased had died from opium poisoning. We wonder what would have happened to the witness Wheeler if he had declined to lick the coronial pen.

The Winter Session.

CHEMICAL SOCIETY.

A RATHER poor attendance at last week's meeting, but two ladies who have this session been fairly regular attenders were in their places. They are good listeners. After the preliminary business Professor DUNSTAN read a paper by Professor Dobbie and Mr. A. Lauder on the "Oxidation Products of Corydaline," and following that an abstract of one by himself and Mr. Luxmoore, B.Sc., on the

ISOMERIC BENZOYLDOXIMES.

This was a preliminary note communicated to ensure priority, because, although they have been working at the subject for eighteen months, and have collected a number of important facts, a German chemist is also working on the subject and has published some results in the *Berichte*. Benzoyldoxime was discovered by Beckmann, and has the formula $C_6H_5CH\,NOH$. There are two isomeric forms of it—the *alpha* (a liquid yellow oil according to Beckmann), and the *beta*, a white crystalline body. Dunstan and Luxmoore now find that alpha-benzoyldoxime can be obtained crystalline by separating from the oil certain impurities and freezing the residue. It sets (on the addition of a crystal) into a mass of white crystals, which can be recrystallised from petroleum ether. Thus obtained it melts at 34° C., while pure beta-benzoyldoxime melts at 125° C. The isomerism of the substances is explained on the stereochemical principle, and support is given to it by the behaviour of the substances—the *alpha* readily changing into the *beta* by heat, and *vice versâ*, and on treating the *alpha* with hydrochloric-acid gas, hydrochloride of the *beta* compound is formed. In respect to the last fact, it is notable that alpha-benzoyldoxime hydrochloride had not so far been obtained; but Dunstan and Luxmoore by operating on an etherial solution of the base have succeeded in getting the hydrochloride as a granular non-crystalline substance. They have also obtained alpha-benzoyldoxime sulphate for the first time, and have prepared and studied the properties of the hydrobromide, hydroiodide, and hydrofluoride. It is remarkable that while the hydrobromide and hydroiodide agree with the hydrochloride in conforming to the constitution $C_6H_5CH.NOH.HCl$—*i.e.*, one molecule of HBr or HI—the hydrofluoride has H_2F_2 in the molecule. The authors have also determined that the acetyl derivative is crystalline, and that the beta-isomer is the more stable. They hope in the course of the research to prove whether the stereochemical theory explains the isomerism or not. The discussion added nothing to what the authors said. Professor ARMSTRONG (President) then communicated some particulars of a research regarding the

INTERACTION OF ACID CHLORIDES AND NITRATES.

"This may be regarded as the second part of the paper. In 1873," said he, pawkily, "I communicated the first part to the Society." The members smiled, and Professor Armstrong proceeded to describe how he took the matter up twenty years ago. He was endeavouring to get a certain reaction with acetyl chloride and silver nitrate, when, instead of what he expected, the following reaction was obtained:—

$$4CH_3COCl+2AgNO_3=2(C_2H_3O)_2O+2AgCl+Cl_2+2NO_2.$$

The existence together of chlorine and nitric peroxide was considered a rather remarkable circumstance, and a German chemist afterwards disputed the correctness of Professor Armstrong's results, but these have been amply confirmed by Williams. The research has again been resumed along with Mr. Lapworth, and while confirming previous results the authors deal with acid chlorides generally, and in the case, *e.g.*, of sulphuryl chloride, SO_2Cl, come to the conclusion that it is the oxygenated group rather than the chlorine which is the more active in inducing decompositions; and the conclusion of the whole matter, derived from a speculation as to how silver nitrate can behave in the way it does, is that its formula is not $AgNO_3$, but $Ag_2O.N_2O_5$, and that the above reaction is one between CH_3COCl and N_2O_5, thus—

$$2CH_3COCl+N_2O_5=(C_2H_3O)_2O+Cl_2+2NO_2.$$

This old-fashioned view of things rather startled the meeting. Professor TILDEN said he thought silver nitrate had been proved by Raoult's method to be $AgNO_3$. Nitrosyl chloride at low temperatures reacted with other bodies to form nitrites, and at high temperatures to form chlorides. Dr. PERKIN and Professors RAMSAY and DUNSTAN also joined in the discussion, the constitution of nitric acid being the principal topic, and Professor ARMSTRONG, in his reply, said his view of nitric acid is that it is $H_2O.N_2O_5$.

Two other papers were read in abstract.

CHEMISTS' ASSISTANTS' ASSOCIATION.

ON Thursday, December 21, a musical and social evening was held at 103 Great Russell Street, and proved a very successful and pleasant gathering.

Mr. S. M. Burroughs took the chair, and his genial manner did much to make the audience appreciative. He had been suffering from influenza, but had sufficiently recovered to allow of his returning from Bournemouth in the afternoon to fulfil his engagement, and his kindness was very highly appreciated.

The programme was of a varied nature, and elicited much applause. The arrangements were entrusted to Messrs. Jones and Sage.

EDINBURGH CHEMISTS', ASSISTANTS', AND APPRENTICES' ASSOCIATION.

AT the meeting held on Wednesday, December 20, Mr. DAVID MATHEWSON read some "Notes on Ferns," in which he dealt very fully with the structure and life-history of ferns: their distribution, habits, and collection; the folk-lore associated with them; and their uses in the arts, as dietetics, and in medicine. He also exhibited a few of the better-known British species. Mr. DONALD MCEWAN exhibited and described a few of the "Recent Additions to the Herbarium," including a specimen of Canary grass, *Phalaris canariensis*, which has now become quite common in the neighbourhood of Edinburgh. He also read an interesting note on "Labels," illustrated by a collection of specimens, indicating both commendable and reprehensible practices in this department of a pharmacist's work, the importance and significance of which he strongly emphasised.

THE WESTERN CHEMISTS' ASSOCIATION (OF LONDON).

AT a meeting of this Association, held at the Westbourne Restaurant, on December 20 (about twenty members present), a vote of thanks was passed to Mr. Martindale for his services as President of the Association. The PRESIDENT (Mr. Andrews) then made a brief survey of the work of the Association since its formation in 1890, pointing out that owing to its steady progress and the friendly feeling of the members there were no great events to record, but that several matters of considerable importance had been discussed and action taken thereon that had proved of benefit to the members generally. Mr. Andrews also advocated the claims of the Benevolent Fund.

Mr. PARKER (Vice-President), in proposing a vote of thanks to the President for his address, referred to the subject of the federation of kindred associations. He thought much might be done by such an organisation which the Pharmaceutical Society could not undertake.

Mr. HYSLOP, who seconded the resolution, rather deprecated the idea of federation, as he was of opinion that the Pharmaceutical Society was the proper body to work for the whole. He considered that pharmacy was steadily progressing, and that there was no necessity to be noisy or aggressive.

Mr. BRETT alluded to the probability of a new edition of the Pharmacopœia being issued shortly, upon which pharmacists would be consulted.

Mr. MARSH thought the great increase of stores and branch businesses would soon become very detrimental to

pharmacy and the Pharmaceutical Society. He was of opinion that the examination of the Society should qualify for one business only.

Mr. URWICK thought that, although the Western Chemists' Association was successful and progressing, it might be more so if better known.

The vote of thanks having been carried unanimously,

Mr. ANDREWS replied, and suggested that at the next meeting the subject of federation should be fully discussed.

GLASGOW AND WEST OF SCOTLAND PHARMACEUTICAL ASSOCIATION.

THE fortnightly meeting of this Association, held on Thursday evening, December 21, was thinly attended. Mr. James Robb was in the chair.

THE PROPOSED FEDERATION.

The SECRETARY intimated an acknowledgment in reference to the Federation scheme, from Mr. Thompson, of Birmingham, who stated that with one exception all the important associations throughout the country had joined the Federation. The association which had not joined was in full sympathy with the movement, but did not see its way to appoint delegates.

Mr. LAING opened a discussion upon the advisability of drafting

A CODE OF ETHICS.

He suggested that they might agree upon certain matters in the interests of the trade which might form a nucleus for a code of ethics. The registration of drug-shops was one of the things that he would go in for. No drug-shop should be allowed to be opened until it had been notified to the Pharmaceutical Society, and of course only a qualified man would be allowed to own such a shop. They should also endeavour to limit the hours of labour.

Mr. RUSSELL said, if their conduct was in accordance with what they judged right in their calm moments, there would be no necessity for a written code; but if they could not attain to this it would be advisable to have a written code, so that through the calm deliberations of a number of men, something might be arrived at which would be an almost certain guide for others placed in a difficulty. A code of ethics should treat of the pharmacist's duty to the medical profession, his bearing towards the patient. Then there was the duty of apprentices, especially in regard to their training, the duty of masters and assistants towards each other, the duty of employers to each other, to pharmacy generally, and to the public. No one could deny that there were conditions existing in pharmacy which called for amendment. He went on to discuss the medical code of ethics, and suggested that pharmacists should have something of that nature. Quackery should be a sufficient justification for strking a man off the register.

Mr. MOIR did not see that a code of ethics would do them a bit of good. The medical and legal professions, the only two professions which had codes of ethics, were professions pure and simple. Chemists and druggists were to all intents and purposes a trade, and he did not think any Act of Parliament would ever give the Pharmaceutical Council more power than it had at present.

Mr. MCKELLAR thought there was no great desire to discuss this matter at all, and believed that the code of ethics was responsible for the small attendance that night. It was very difficult in the present condition of the trade to draw up any hard-and-fast line of ethics. They had all an unwritten code of honour, and that, he thought, was sufficient. He, however, agreed that annual licensing and registration of shops were points worth discussing. He thought that the names of druggists convicted of criminal offences should be erased from the register.

After several other speakers had expressed the opinion that the discussion was a futile one, the CHAIRMAN remarked that the best code of ethics they could adopt was that expressed by the old saying, "Do unto others as you would have others do unto you."

THE Congress of Homœopathic Practitioners of Great Britain has decided that membership should only be open to practitioners on the British Register.

Legal Reports.

IRISH PHARMACY ACT PROSECUTION.

AT Templemore Petty Sessions on Wednesday, December 20, before Mr. Bruen, R.M. (in the chair), Captain Lloyd, and Mr. Thomas Corcoran, Francis O'Mullane, grocer, Talarara Place, was again summoned under the Pharmacy Act, for having, on June 8 last, sold poison in his shop, contrary to the Pharmacy Act (Ireland), 1875. The defendant had been twice previously proceeded against on the same charge, but the first proceeding was dismissed, and in the second the magistrates held that they had no jurisdiction.

Sergeant M'Gann, who prosecuted, deposed that he purchased oxalic acid in O'Mullane's shop. He told defendant that he was violating the law by selling oxalic acid, and defendant said that if witness did not take action he would discontinue the sale of the substance.

A fine of 5*l.* was imposed.

NITRATE IS NOT NITRITE.

AT the Birmingham Police Court, on Friday, December 22, Benjamin Moate, chemist and druggist, Summer Lane, was summoned for selling spirit of nitrous ether which was not of the nature and substance demanded, the spirit being deficient of the minimum quantity of ethyl nitrate required by the Pharmacopœia, to the extent of 20 per cent.

Mr. Glaisyer, who defended, took an objection to the summons, which said the deficiency was in ethyl nitrate, whereas it should have been nitrite.

Mr. Carter said that nitrates and nitrites were very different things, and as Mr. Glaisyer objected to the emendation of the summons, it was dismissed.

STORES SAL VOLATILE.

AT the last meeting of the Isle of Wight Petty Sessions, held at Newport, Herbert Marfleet, manager of the Totland Bay Supply Stores, was charged with contravening the Food and Drugs Act, for selling, on October 18, sal volatile, which was certified by Mr. Otto Hehner to be adulterated, as it contained only 70·6 per cent. of the amount of ammonia required by the British Pharmacopœia. Defendant said he did not keep a skilled chemist for his drug department, but simply sold packed drugs as received from one of the best wholesale houses in the trade, and his defence was that he could not with "reasonable diligence" have ascertained that the sal volatile was deficient in any respect.

The Chairman said that it was for the defendant to prove that when he sold it the sal volatile was of the same "nature, substance, and quality" as when he received it.

Defendant said he received a written guarantee from the wholesale vendors, but they had since withdrawn it, as they said they could not guarantee it for any length of time under any circumstance. He had had it in stock since the beginning of the year, and they suggested that the extreme heat of the summer had caused evaporation; it was liable to deteriorate in one way or another under such circumstances.

The Chairman told defendant if he had produced the guarantee his defence would have been good; as he did not produce it, he would be fined 1*s.* and 19*s.* 6*d.* costs.

COUNTY COURT CASES.

On the High Road to Bankruptcy.

AT the Romford County Court, last week, the London, Tilbury and Southend Railway Company proceeded on a judgment summons against William Jacob Barnes, a chemical manufacturer, Rainham, for money due.

The defendant, on being called, producing a sheaf of papers, said, "I've got all these judgment summonses against me, and I haven't a shilling in the world."

In answer to his Honour Judge Paterson, the debtor said he had been a bankrupt, but had contracted the debts since obtaining his discharge. He added, "I started business with 600*l.* and I've lost it all."

His Honour: I think you are on the high road to bankruptcy again.

The Defendant: Yes. The defendant further stated that, although he was still carrying on the business, it was at a loss. His brother was advancing the wages of the two men in order that a contract might be fulfilled.

The witness for the company could not give evidence of means, and the summons was dismissed.

Tidman v. *Carlton.*

This action came on for hearing, before his Honour Judge Holl, at the last sitting of the Barnet County Court. The plaintiffs, Messrs. Tidman & Co., of London, sued Mr. T. W. Carlton, chemist, of Finchley, to recover the sum of 1*l.*, balance of account for goods supplied. The representative of Messrs. Tidman said the 1*l.* had been omitted from an account rendered through inadvertence. The defendant alleged that the plaintiffs had not sent him a statement of account for upwards of nine months.

His Honour said he thought the plaintiffs ought to be paid. It was a mistake on the part of the plaintiffs in omitting the 1*l.*, and he should give judgment for the plaintiffs without costs. He thought that as one of the plaintiffs' men had made a mistake, they should pay the costs.

Bankruptcies and Failures.

Re Emanuel Moss Cohen, late of Houndsditch, E.C., Sponge Merchant.

At the London Bankruptcy Court, before Mr. Registrar Giffard, on December 21, this bankrupt came up for his public examination upon accounts showing 1,970*l.* 15*s.* 5*d.*, and no assets.

In reply to Mr. Egerton S. Grey, Assistant Official Receiver, the debtor stated that he was formerly a member of the firm of J. & M. Cohen, sponge merchants, trading at 53 and 54 Houndsditch. He joined that firm eight years ago, putting no capital therein at that time, but he subsequently introduced 2,000*l.*, given to him by his wife. In August, 1891, having overdrawn his capital to the extent of 125*l.*, and being liable on certain accommodation bills, he retired. He had lost 800*l.* in connection with the promotion of a sewing-machine company, but the chief reason for his leaving the firm was his having engaged in accommodation-bill transactions, contrary to the articles of the partnership. After he left the firm he offered some of his creditors a composition of 2*s.* 6*d.* in the pound, which they refused. Since then he had paid various sums to some creditors. In February, 1892, his wife started business as a sponge merchant in Gray's Inn Road under the style of "F. M. Cohen," and employed him to manage the business at a weekly salary. Various judgments were recovered against him prior to the petition being filed, and in one instance execution was put in. He had never failed before. His wife started the business on her account with 1,500*l.* given to her by her father. It was not true that witness had found any money for that business. The bankrupt was allowed to pass.

Re The Anticuta Syndicate Company (Limited), 38 Snow Hill, E.C.

Meetings of the creditors and shareholders of this company were held on December 22, at the Carey Street offices of the Board of Trade. The company was formed in January last, with a nominal capital of 10,000*l.*, chiefly for the purpose of acquiring the goodwill and business of certain vendors of veterinary medicines, carried on under the style of the "Anticuta Company," together with certain secret preparations, with a view to the development of such business. The company also agreed to purchase the secret preparation known as "Selmo" for 300*l.* cash and 300*l.* in fully paid-up shares. The purchase price for the business of the Anticuta Company, including the secret preparation known as "Anticuta," and the registered trade-marks was agreed at 300*l.* cash and 4,700*l.* in fully paid-up shares. The stock-in-trade and plant were to be taken at a valuation, but it appears that without any independent valuation the sum of 330*l.* was paid on this account to the vendors. The working capital of the company was not sufficient; the expenses incurred in carrying on the company's business proved too heavy, and in October last a winding-up order was made on the petition of Messrs. Hodgkinson, Prestons & King, wholesale druggists, Bishopsgate Street, E.C. The accounts filed under the proceedings show unsecured debts, 1,213*l.* 14*s.* 10*d.*; fully secured debts, 122*l.* 10*s.*; preferential creditors, 81*l.* 14*s.* 5*d.*; assets estimated to produce 710*l.* 1*s.* 3*d.*: a deficiency of 617*l.* 8*s.* to the creditors, and a total deficiency of 7,067*l.* 8*s.* as regards contributories.

Mr. Warley, Assistant Receiver, presided at the meeting of creditors and, having dealt with the proofs that had been tendered, reported upon the realisation of the assets. A small sum had been received by the Official Receiver in respect of the loose assets and book debts. A preliminary meeting was held on October 27 to discuss the sale of the trade-marks and good will. The question of the title had then to be investigated, and that had been completed. The assignment did not then stand in the name of the company, but that omission had since been rectified. It was now proposed to advertise the assets for sale by tender, the tenders to be sent in by January 4, and opened on the following day. The book debts had been returned as doubtful because in the majority of cases the goods had been left with the customers on sale or return.

Mr. Cooper, a creditor, commented upon the case at some length, and expressed a desire that the directors and officials of the company should be examined in open court respecting the operations of the company.

Mr. Piesse (Piesse & Son), who represented the petitioning creditors, supported the suggestion that the persons interested in the formation and business of the company should be examined at the proper time and place.

Mr. Cooper proposed, and Mr. Piesse seconded, that the case should be left in the hands of the Official Registrar, to be liquidated. The resolution was unanimously carried, and a committee of inspection was elected, consisting of Messrs. Alfred Preston, Alfred Henry Cooper, and William Henry Field. The principal creditors are:—

Unsecured.

	£	s.	d.
Barnes, J., & Son, 41 Huddlestone Road, Tufnell Park	104	1	1
Berridge, G., & Co., 170 Upper Thames Street, E.C.	67	12	8
Bibbey, J., Sumner Street, Southwark	22	5	5
Cooper, A. H., 19 Coleman Street, E.C.	23	8	2
Cumberland, Arthur, 6 Brownhill Road, Catford Bridge	18	0	0
Do. do. do.	45	0	0
Fell & Briant, Glasshouse Yard, E.C.	14	18	4
Gee, W., 81 Bishopsgate Street, E.C.	10	10	0
Hodgkinson, Prestons, & King, 81 Bishopsgate Street, E.C.	68	18	1
Holdom, George, & Cumberland, Arthur Ethelbert Hamilton, late of 233 Blackfriars Road, S.E. ..	407	10	0
Lamb, T. G., 61 Farringdon Road, E.C.	11	11	0
Lambert, W. B., 212 Liverpool Road, N.	14	0	0
Martin, —, Perry Hill, Catford	15	0	0
North Bucks Free Press Company, Fenny Stratford	11	7	0
Pillivant, F. J., 31A Old Street, St. Luke's, E.C. ..	41	0	11
Roberts' Capsule Stopper Company (Limited), 97 Hampstead Road, N.W.	10	1	11
Robbins & Young, Bridge House, Queen Victoria Street, E.C.	60	0	0
Wedekind & Co., 5 Great Tower Street, E.C. ..	89	0	0
Holdom, George, 38 Snow Hill, E.C...	133	3	7

Fully Secured.

	£	s.	d.
Bertram, J. Arscott, 11 Old Jewry Chambers, E.C. (Security estimated at 150*l.*)	100	0	0
Land & House Property Corporation (Limited), 128 Cheapside, E.C. .. .. (Security estimated at 25*l.*)	22	10	0

Preferential.

	£	s.	d.
Cumberland, Arthur, 6 Brownhill Road, Catford Bridge	68	0	0
Lambert, W. B., 212 Liverpool Road, Islington ..	19	0	0

At the meeting of shareholders, held later in the day, a similar resolution was passed without any discussion.

HASHISH.

By LUKE SHARP.

LAST week's London Edition of the *Detroit Free Press* contains an amusing record of a hashish experience professedly related to "Luke Sharp" by a young English chemist at Naples. They were undergoing the beer cure together, and were talking about hashish.

"I suppose," said the chemist, "that the drug affects no two men alike. I took it twice—but never again—never again. The first time I took the normal dose as given in the pharmacopœia. It had practically no effect. It kept me awake all night and in a state of some excitement, but that was all.

"Last winter in Naples, three of us, a young Spaniard—or rather a Brazilian—an Italian and myself, got talking about the drug and I said I would make up a dose for each, the agreement being that we would all take the dose together in my room. Next day I made three doses, each four times the normal amount, and putting them in a bottle, met my two comrades in the evening. The Brazilian refused to take it there, but the Italian and I touched glasses and drank down our portions.

"We resolved to go to the Florentini Theatre. The play was one of Cossa's, with Tina di Lorenzo, a favourite actress, as leading lady. Up to this time the large dose had had no effect on either of us, although I remember I was a little flustered about my change at the box office, and counted it over several times, but without comprehending whether or not I had received the exact amount. We took our places together in the stalls. The play was going on, but although familiar with it, I found a difficulty in following the thread of the story. It did not interest me as usual, yet my mind was preternaturally clear. It seemed to me that my friends and I were whispering to each other, but there were cries around us of "hush, hush," so we must in reality have been talking loudly. Suddenly the Italian crouched, pulling his broad-brimmed felt hat over his brows.

"'The theatre is coming down,' he cried, 'Let us get out of this. We are going to be crushed.'

"I ridiculed the idea, but felt there was something in it. I kept saying to myself, 'This is the hashish,' yet it did not convince me. I knew we were in some vague danger, and so I got up with my friend and we made our way to the wall. He squeezed against the wall, crouching and peering up under the brim of his hat, repeating over and over again:

"'Look out for the ceiling. It will be down in a minute. See how it is waving up and down like a canvas tent in a storm. Keep close to the wall. It is the only safe place.'

"We couldn't find the door, feeling for it along the wall. We seemed an eternity circling around, my friend rubbing the coat off his back against the side of the theatre, searching with his hands for the door. I wondered why they didn't stop the play till we found the door. I kept saying to myself: 'The drug has no effect on me, but I must keep myself well in hand, for the Italian is in a bad way. Now, who in heaven's name has removed that door, and why was it taken away?'

"At last we got out of the theatre, after what seemed hours of effort. Once outside, I insisted that the Italian should go to a cafe and have some coffee. He would not agree to this, but kept crouching along the walls of the houses. The town was coming down, he said, and looking up I saw the tall houses toppling dangerously towards those opposite. I thought the middle of the street the safest place, but he wouldn't have it so.

"'I am dying,' he cried; 'I know it. I am going to die in a few moments. I will not die in the middle of the street. I want to be close to the wall.'

"Then he began to cry.

"'What is that stuff you have given me? You have poisoned me. What have I done that you should poison me? I have never harmed any one.'

"I could give no explanation. I knew there was a reason, but it eluded me. I took the bottle from my pocket to dash it against the wall. He was very alert, and divined what I was about to do. He seized my arm and became violent.

"'You have poisoned me, you villain, your best friend. You want to destroy the evidence. I shall not allow you.'

"I then remembered I had taken the same dose myself, and I became suddenly indignant at his charge.

"'Don't make a scene in the street,' I cried. People were pausing and looking at us. I didn't like that. 'Look. I will take the rest. It is not poison.'

"And with that I swallowed the rest of the stuff and threw the bottle away. I had now eight times the normal dose. We went into a cafe, but the Italian refused to drink any coffee because I ordered it; but took a glass of water. He told everybody I had poisoned him and appealed to them, but they thought us both drunk and tried to soothe him, at which he wept and begged not to be taken into the middle of the street when he died. At last I got him home and told his people what the trouble was, and asked them to give him as much coffee as he would drink. In talking to them I spoke every word slowly and carefully, counting out my words as if they were coins. Then I got out, hailed a cabby and told him where to drive me. I remember after that standing in a cafe with the driver and drinking brandy. My throat was in a horrible condition.

"I climbed the six flights of stairs to my room and locked my door. I fastened my window with great care, for I knew, somehow, that my double dose had not yet taken full effect, and I felt that when I was completely under its influence I would throw myself out on the street. Yet my mind, which was getting clearer and clearer, said to me:

"'What is the use of fastening your window? What you fasten you will as easily unfasten when the time comes.'

"I threw myself on the bed. My mind became extravagantly lucid. No problem existed that it could not instantly solve. I yearned for pencil or pen that I might write. I felt that the result would be something marvellous. The mystery of life and death was as plain as noonday. All the vexed questions of mankind were clear, and if I had had a pen such a book would have been written that the whole world would marvel that there had ever been two opinions on these disputed points.

"At last my mind became so lucid that it began to upset its own explanations. It would solve a problem, then change sides and refute the solution, next restate the case, prove it again, and immediately after show the absurdity of the proof, and thus it went, going down a long corridor that appeared to end in darkness, until I shouted:

"'My God! I shall go mad. We must begin at the beginning again or I shall go mad!'

"We would then begin at the beginning again. I knew now that if I had taken exactly five drops more of the hashish solution it would have killed me. I said this must be remedied. One drop from the window would equal five drops of the solution. This fact is not known to chemists. I laughed at the idea. It seemed then very funny. I remembered that a chemist when he commits suicide never poisons himself. He cuts his throat or hangs himself. I saw that it was required that I should throw myself from the window, and I laughed again as I thought of the futile fastening. I said to myself, 'I told you so.' I tried to get up and go to the window. I could not move hand or foot. I lay on my back with each arm stretched out at right angles to my body, and stared up with burning eyes at the ceiling, but could neither close my eyes nor move a finger. And thus I lay till morning, when I went to business feeling very shaky, and my employer thought I was a dying man from the ghastliness of my face.

My Italian friend spent the night alternately laughing and weeping. He told his watcher a hundred times during the night how I had poisoned him, and that I had drunk the rest of the stuff so as to kill myself, knowing I would be executed for the crime. He knew that I was dead, but said I would come in the morning and drag his own lifeless body into the middle of the street. Then he wept as he implored the watcher not to allow this to be done, laughing again when he was assured would be circumvented. He tried to go down to his office next day, but had to call a cab and return. He was ill for a week, and neither of us had any desire to repeat our experiment with hashish."

WHALEBONE is 2,000*l.* per ton just now. Spermaceti is not in it, and ambergris may have a rival in the next generation. Yet in Scotland they used to make gate-posts of whalebone long, long ago.

Business Changes.

MR. VICTOR J. WOOLLS, chemist and druggist, has opened a pharmacy in Cecil Square, Margate.

MESSRS. SHARLAND & CO. have removed their London offices from 119 and 120, to 43 London Wall.

MR. THOMAS WILLIAM AGAR, chemist and druggist, has acquired the business carried on at the Victoria Pharmacy, Workington, by Mr. W. Bowness.

THE new pharmacy of Mr. Lloyds, Carmarthen, has been handsomely refitted by Messrs. Vale Brothers, of Weston-super-Mare.

MESSRS. HICKS & CO. (LIMITED), of Cardiff, have purchased the business lately carried on by Mr. J. E. Jones, chemist and druggist, Barry Dock.

THE progress of electric lighting at Richmond is exemplified in the brightly lighted pharmacy of Messrs. Wenton & Co., chemists, for whom an electric installation has just been completed.

MR. JOHN BRISTED, chemist, High Street, Margate, has retired from business, after 27 year's trading, and the pharmacy has been purchased by Mr. C. W. Bobby, who is extending his premises.

MESSRS. COLES & CO., of West Street, Reading, are relinquishing their business, which they have transferred to Messrs. Tunbridge & Wright, of the Central Drug-stores, Broad Street, Reading. Mr. S. J. Coles, R.D.S., will henceforth practise dentistry in Reading.

THE executors of the late Wm. Smeeton, pharmaceutical chemist, 26 and 27 Commercial Street, Leeds, have disposed of the freehold premises, and relinquished the business; the stock, prescription books, and goodwill have been transferred to Messrs. Reynolds & Branson.

Personalities.

MR. E. WATSON, chemist, Mayor of Beccles, distributed 150 tickets of 3*s*. to 4*s*. each, according to size of family, to the poorer inhabitants of the borough, for Christmas dinners.

MR. FRANK HERBERT DE LA RUE, last week presented to the Guernsey Court his certificate from the Pharmaceutical Society, dated April 14 last, proving him to be duly qualified for registration as a chemist and druggist, in accordance with the local law. and he was accordingly granted leave to exercise his profession in the said island.

DEED OF ARRANGEMENT.

The following deed of arrangement with creditors has been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Watson, Robinson Henry, 63 Bury New Road, Bolton, dealer in drugs. Trustee, Richard J. Jackson, 9 Mawdsley Street, Bolton, accountant. Dated December 19; filed December 22. Unsecured liabilities, 200*l*. Estimated net assets, 50*l*. The following are scheduled as creditors:—

	£	s.	d.
Cussons & Sons, near Manchester	10	10	3
Heywood, Abel, & Son, Manchester	16	13	3
King & Co., London	11	0	0
Preston Banking Company, Bolton	15	0	0
Smith, Albert, Manchester	11	0	0
Taylor, Jos., & Co., Bolton	49	15	8

Deaths.

BENTLEY.—A large number of friends and admirers will hear with deep regret of the death of Emeritus Professor Bentley, of the Pharmaceutical Society, which occurred on Sunday last, December 24, at 91 Warwick Road, Earl's Court, London, at the age of 72. It is but a few weeks since he attended the opening of the Society's school session, and within the past few days we received a pleasant letter from him.

Robert Bentley was born at Hitchin, Herts, being connected on his father's side with Charles Lamb, and on his mother's with the Society of Friends. He was apprenticed to Wm. Maddock, chemist, of Tunbridge Wells, with whom he began his study of botany, and became an active member of the local Mechanics' Institute, where he delivered lectures on botany, chemistry, magnetism, and electricity whilst yet an apprentice. Later, he became an assistant with Messrs. Bell, of Oxford Street, and his name appeared among the original list of associates of the newly-formed Pharmaceutical Society. He obtained the first prize for botany awarded by the School of Pharmacy, and the remembrance of this success ever remained a source of gratification to him. Bentley next matriculated, and entered King's College as a medical student, and on completing his curriculum became a member of the Royal College of Surgeons. His future career was probably determined when he was appointed to finish the course of lectures on botany at the London Hospital, interrupted in their delivery by the death of Edwin Quekett, and soon after, on the recommendation of Dr. Pereira, he was elected lecturer on botany in the London Hospital Medical School. In 1849 his connection with pharmacy was renewed by an invitation to him to deliver a summer course of lectures on practical botany to the students of the Pharmaceutical Society's school. He was subsequently elected professor of botany at Bloomsbury Square. In 1859 he became botanical lecturer at King's College, and in 1862 professor of botany at the London Institute, where he had lectured annually since 1855. In 1863 he was made honorary Fellow of King's College and Dean of its medical faculty. The Pharmaceutical Conference twice elected him their President—in 1866 and 1867. As Chairman of the Garden Committee of the Royal Botanical Society of London, he gave annually a course of botanical lectures to the Fellows.

Of works from his pen, his "Manual of Botany" stands in the premier place, and will, doubtless, long remain a standard treatise for students. He was associated with Dr. Farre and Mr. Warrington in editing Pereira's "Manual of Materia Medica and Therapeutics," published in 1855, and also wrote "Lectures on the Organic Materia Medica of the British Pharmacopœia," which were circulated privately. In 1872, with the late Professor Redwood, he edited "Pereira's Elements," an edition of which has been published in the United States of America. He also contributed numerous valuable papers to the *Pharmaceutical Journal*, of which he was for ten years one of the editors.

Professor Bentley was always immensely popular with his pupils, and many a student has had to thank him for the kind, conscientious, and patient manner in which he explained the first principles of the science he taught.

Professor Bentley resigned his professorship at the Pharmaceutical Society's School in May, 1887. The next month he was created Emeritus Professor, and a retiring allowance of 100*l*. a year was voted to him. Soon afterwards a desire was manifested by his old pupils to demonstrate their respect and affection for their revered teacher. This movement resulted in the presentation of the Professor's portrait to the Pharmaceutical Society the next year, and the supplementary gift to himself of a purse with 300 guineas.

The funeral service will be held at St. Matthias's, Earl's Court, at 1.45 P.M., and interment at Kensal Green Cemetery at 3 P.M., on Saturday, December 30.

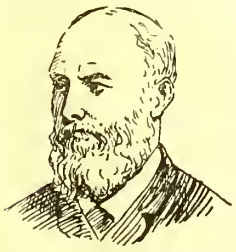
WILLIAMS.—At Liscard, Cheshire, on December 23, Mr. Williams, chemist, from the after-effects of a severe attack of influenza.

THE CHEMICAL-INDUSTRY IN THE REICHSTAG.

AT this year's General Election the Reichstag lost its only pharmacist member, Dr. Witte, of Rostock, who was defeated, and whose death has since been announced. Two or three apothekers who stood as candidates did not succeed in obtaining election, and pharmacy in the narrower sense of the word is, therefore, not represented in the new German Parliament by a member of its own craft. Several gentlemen connected with the chemical-industry, however, have kept or gained seats. The most prominent of these, at any rate in respect of the interest aroused by his election, is Herr Gustav Siegle the National-Liberal member for Stuttgart, and a chemical-manufacturer in that city. Herr Siegle was born at Nürtingen, in Wurtemberg, in 1840, and took over the direction of his father's chemical-factory in 1863. Five years later he established another chemical-works at Duisburg, and in 1875 he amalgamated his factories with the Badische Anilin und Soda Fabrik—a concern very well known in the coal-tar-derivate business all over the world, and of which Herr Siegle is now a director. The member for Stuttgart had a hard fight for his seat, and only beat his Social-Democratic competitor at the second ballot. It deserves mention, however, that while all over Germany the personal antagonism between Conservatives and National-Liberals on the one and Socialists on the other hand was carried to the extremes of bitterness, Herr Siegle kept up the most pleasant personal relations with his rival, whom he entertained to dinner a few days before the poll, the two candidates rising from table to address their respective meetings. Herr Siegle has been in the Reichstag for six years.

Herr Adolf Koepp, the Radical member for Wiesbaden, was born in 1830 at Biebrich a. Rh., and, after studying chemistry at Würzburg and Marburg, and spending several years in England as a practical chemist, founded a chemical-factory in Wiesbaden, of which he is still the proprietor.

Herr Commerzienrath Dr. Carl Friedrich Clemm represents Speyer, in the Palatinate, as a National-Liberal. He was born in Giessen fifty-seven years ago, and has had a busy commercial career. From 1857 to 1859 he was engaged as manager of a chemical-works in Mannheim, and in 1860 took part in the establishment, in the same city, of an aniline-dye factory. In 1865, when this factory was turned into a company, Dr. Clemm became one of the directors, and remained so until 1884, since when his connection with the business has been of a more passive character. In 1882 Dr. Clemm helped to found the cellulose-factory at Waldhof, of which he is still a director; in 1884 the Baden factory for the preparation of wood-derivates; and in 1886 an insurance company. Dr. Clemm was also a member of the previous Reichstag



The hirsute gentleman here portrayed is Comrade Emanuel Wurm, the Socialist member for Gera, in the principality of Reuss. Herr Wurm, who belongs to the Jewish community, is a native of Breslau, 36 years of age, and at present engaged in editing a Socialist journal in Hanover. From 1876 to 1880 Herr Wurm studied chemistry at Breslau University; then he spent three years in Russia as the technical manager of a vinegar and yeast works; and afterwards two in Vienna as the editor of the journal for the alcohol-industry. Herr Wurm, since his return to Germany, has become identified with practical and intellectual Socialist propaganda, and has written a number of pamphlets on alimentation and of general demographic interest.

Traunstein, in Bavaria, sends to the Reichstag, for the second time, a member who unites in his person the functions of Mayor, Court photographer, mineral-water manufacturer, and watchmaker. This versatile gentleman is Herr Anton Lehemeir, of the Roman Catholic or "Centrum" party—a wanderer over the face of the earth, who, after travelling through Europe, Africa, and Asia, and working at one or more of his professions in Florence, Rome, Paris, Vienna, and Naples, came to vegetate at Trostberg, in Bavaria, in 1868, until the Trostbergians sent him to try his hand at legislation in Berlin.

There are six medical men, in practice or retired, in the Reichstag. Two of these are National-Liberals, and one each belongs to the Conservatives, the Radicals, the Poles, and the Alsatians. There is also a wholesale drysalter, Herr Louis Heinrich Buddeberg, who carries on his business in Zittau, Saxony, of which district he is the Radical Reichstag-representative. Richard Walter, the National-Liberal member for Jena, was formerly engaged as the technical chemist of a beet-sugar works in Stuttgart; and Dr. Ernst Lieber, now the leader of the Democratised Roman Catholic or "Centrum" party, is the proprietor of a patent medicine known as "Lieber-Thee," which he has inherited from his father, and which enjoys a great reputation in the country districts of Southern Germany.

Gazette.

PARTNERSHIPS DISSOLVED.

Hardman, J., and Peake, J., under the style of Josiah Hardman & Co., Tunstall, chemical manufacturers.

Wrigley, H., Wrigley, J., Jacques, T., Horrocks, J. T., and Wrigley, R., under the style of Wrigley Brothers, Birch-in-Hopwood and Radcliffe, herb-beer manufacturers, so far as regards R. Wrigley.

THE BANKRUPTCY ACTS 1883 AND 1890.

RECEIVING ORDER.

Petty, Francis, Reading, dentist.

ADJUDICATIONS.

Boyle, Benjamin Patrick, Daventry, Northamptonshire, veterinary surgeon.

Curtis, Michael Edward, Manchester, mineral-water manufacturer.

Dobson, George, Penarth, chemical-works manager.

Morton, Henry Enoch Macdonald, Finsbury Park Road, South Hornsey, N., patent-medicine vendor.

Wilkinson, Richard, Hindley, Lancashire, mineral-water manufacturer.

ORDERS MADE ON APPLICATIONS FOR DISCHARGE.

Goodliffe, George, Folkestone, on his sole account, and in copartnership with Frederick Eastes, pharmaceutical chemist and optician—discharge suspended for two years, ending November 6, 1895.

Tuke, John Henry, Cambridge Street, Pimlico, S.W., surgeon—discharge suspended for three years, ending November 14, 1896. Public examination concluded on November 15, 1892.

A DIPHTHERIA REMEDY.—It is stated that Professor Laubenheimer and Dr. Libbertz, two colleagues of Dr. Koch, are occupied in the preparation of a specific against diphtheria. Dr. Libbertz, who has made a report to the medical faculty on the progress made with the serum treatment of tetanus and of diphtheria, expresses himself as decidedly confident of success. The diphtheria-remedy, it is said, will be prepared commercially by the Aniline Dye-works, at Höchst-on-Main. Professor Koch is also about to emerge from retirement once again. He is said to have considerably improved tuberculin, and will shortly publish a paper on that "remedy" in which he will reply to the criticisms to which he has been subjected.

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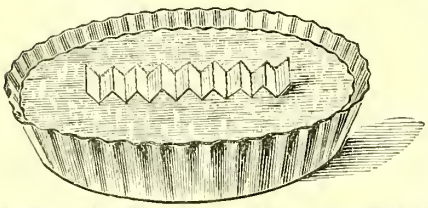

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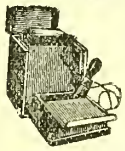

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British Medical Journal.
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Editorial Comments.

THE RECORD OF 1893.

BEFORE we part for ever with the familiar comrade in whose company we have travelled towards history during the past fifty-two weeks, it is well that we should scan our acquaintanceship, and discover whether the association has been beneficial or otherwise to us as pharmacists.

THE SALE OF POISONS.

Politically we have advanced a little. There is by this time a fairly unanimous acceptance of the doctrine which we preached for many years to an unsympathetic audience that the only way by which pharmacy can attain to a stronger position in this free-trade country is by way of the sale of poisons. The public insist on being protected as far as possible against accidents and crimes in which poisons may be the instruments, and co-operation with the Legislature in this direction is, therefore, the line of least resistance for pharmaceutical progress. The title "chemist and druggist" is only protected, and examinations are only authorised, in order to ensure that the sale of poisons shall be in the hands of competent, careful, and conscientious persons. The enforcement of the law passed to this end is a duty devolving upon the Pharmaceutical Council, and the fulfilment of its spirit by all interested is the beginning of pharmaceutical wisdom.

Early this year the opinions of the Magistrate and of the County-court Judge in regard to so-called patent medicines were finally ratified and established by a judgment in the High Court in the case of the